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U.S. DEPARTMENT OF THE INTERIOR
PROTOTYPE OIL SHALE LEASING PROGRAM

TRACT C-b

QUARTERLY REPORT #2

(Through February 28, 1975)

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Submitted to:

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By:

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Atlantic Richfield Company, Operator
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The Oil Shale Corporation

APRIL 14, 1975

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SECTION II C

AIR QUALITY

The air quality program is concerned with both measurements of atmospheric gaseous constituents and meteorological processes which affect their transport and diffusion.

Table II C-1 of Quarterly Report #1 summarized data experimental programs in four areas: air quality and surface meteorology, low altitude meteorology, upper air studies and visibility. The fifth area, atmospheric diffusion studies, will utilize a combined experimental, analytical approach. A comparison table, II C-2, reported associated sampling frequency and averaging times for the four experimental programs.

An intensive, 24-hour "quick-look" at the air quality and meteorology of Tract C-b was conducted on 28-29 January 1975 and is included as reference 8 at the end of this section.

<u>Table/Fig. No.</u>	<u>Description</u>	<u>Page</u>
Table II C-1	<u>References for the Basic Data</u> These references are contained at the end of this section. See also Table II C-2.	II C-2
Table II C-2	<u>Air Quality and Meteorology Basic Data Presentation Guide</u> This table summarizes the types of data presented in all the basic references at the end of this section.	II C-3

TABLE II C-1

REFERENCES FOR THE BASIC DATA
(Contained At The End Of This Section)

1. Air Monitoring Report for C-b Shale Oil Project. October 1974.
Report No. 2. Radian Corporation, Austin, Texas. Radian Contract
RC #100-056. 8 January 1975. 211 p.
2. Air Monitoring Report for C-b Shale Oil Project. November 1974.
Report No. 3. Radian Corporation, Austin, Texas. Radian Contract
RC #100-056. 23 January 1975. 230 p.
3. Air Monitoring Report for C-b Shale Oil Project. December 1974.
Report No. 4. Radian Corporation, Austin, Texas. Radian Contract
RC #100-056. 4 March 1975. 219 p.
4. Quarterly Report. Air Monitoring for C-b Shale Oil Project.
September 1974 - November 1974. Radian Corporation, Austin, Texas.
Radian Contract RC #100-056. 24 January 1975. 390 p.
5. Upper Air Studies Over Federal Oil Shale Tract C-b During Winter 1975.
E G & G Environmental Consultants, Albuquerque, New Mexico. Contract
No. 66123. Report No. AL-EC-117. 14 March 1975. 101 p.
6. Upper Air Comparison Studies for Winter 1975 Between Federal Oil
Shale Tracts C-a, C-b and Grand Junction, Colorado. E G & G
Environmental Consultants, Albuquerque, New Mexico. Contract No.
66123. Report No. AL-EC-116. 14 March 1975. 190 p.
7. Air Monitoring and Analytical Determinations of Volatile Trace Metals
at the C-b Tract. Sampling Date January 27, 1975. The Oil Shale
Corporation. Laboratory Data Letter 75-23. February 6, 1975. 6 p.
8. A 24-Hour "Quick-Look" at the Air Quality & Meteorology of Tract C-b.
28 January - 29 January 1975. C-b Shale Oil Project, Denver, Colorado
182 p.
9. An Analysis of Air Temperature Inversion Characteristics of the
Piceance Creek Basin, Western Colorado. William Marlatt and
Associates, Fort Collins, Colorado. Report No. 1. March 12, 1975
11 p.

TABLE II C-2

AIR QUALITY & METEOROLOGY BASIC DATA PRESENTATION GUIDE

<u>Ref. No.</u>	<u>Data Type</u>	<u>Presentation</u>
1, 2, 3	1) All trailer data for air quality and meteorology (see 3 below)	Monthly average values
	2) Meteorological Tower (see 3c below)	Monthly average values
	3) Air quality and meteorology a) NO _x , NO, NO ₂ , THC, CH ₄ , Non-Methane HC, CO, O ₃ , Precipitation b) SO ₂ , Particulates, H ₂ S, Temperature, Wind Speed, Wind Direction, Relative Humidity c) Meteorological Tower @ 4 heights: Wind Speed, Wind Direction, Relative Humidity, Temperature	Daily averages for trailer locations 020, 023 Daily averages for trailers 020, 021, 022, 023, 024 Daily Averages
	4) All trailer data for air quality and meteorology	Maximum 5-minute averages and time of occurrence
	5) Air Quality a) NO _x , NO, NO ₂ b) SO ₂ c) THC, CH ₄ , Non-Methane THC	5 Maximum Independent Sliding Averages: 1-hour durations 30-min. duration, 3-hour durations, 24-hour durations 3-hour durations 1-hour durations 1-hour durations, 8-hour durations @ 6 a.m.
	6) Air Quality & Meteorology: Wind Speed, NO _x , NO, SO ₂ , H ₂ S, THC, CH ₄ , O ₃ , CO	Monthly Frequency Analysis - Bi-variate distributions of concentration with Wind Direction for 5-minute samples
	7) Air Quality & Meteorology: Wind Speed and Direction, Temperature Relative Humidity, NO _x SO ₂ , H ₂ S, THC, CH ₄ , O ₃ , CO	Hourly Diurnal Variations for each day of the month

TABLE II C-2 (Continued)

AIR QUALITY & METEOROLOGY BASIC DATA PRESENTATION GUIDE

Ref. No.	Data Type	Presentation
4	1) Quarterly AQ Summary of Concentrations	By trailer: a) Averages, Max. 24-hr., Max 8-hr., Max. 3-hr. Max. 1-hr., Max 5-min for the quarter b) Daily averages for each of 3 months
	2) Quarterly Concentration Distributions	Number of 5-min. samples by wind direction and level by trailer for the quarter
	3) Wind-rose Frequency Distributions	a) Monthly frequency distributions for the 100 ft. level on the meteorological tower by stability class b) Quarterly frequency distribution for the 100 ft. level by stability class
	4) Diurnal Variation of AQ and Meteorological Parameters	Monthly average hourly values for each of these months
5	1) Upper Air Studies (~200' to 6000')	Daily Pibal releases over 15-day period - (4 per day maximum) 1) Tab data - Time, azimuth, elevation, height, x-y coordinates, velocity 2) Polar trajectories
	b) Temperature profiles	Temperature vs. altitude plots over 15-day period (4 per day maximum)
6	1) Upper Air Studies (~200' to 6000')	Correlations of ref. 5 data with C-a tract and with Grand Junction plus atmospheric stability correlations as obtained from slope of temperature-altitude curve @ 1000' and using Pasquill-Gifford stability classification scheme
7	1) Analytical determination of volatile trace metals: arsine, selenium, mercury	Table showing concentrations

TABLE II C-2 (Continued)

AIR QUALITY & METEOROLOGY BASIC DATA PRESENTATION GUIDE

<u>Ref. No.</u>	<u>Data Type</u>	<u>Presentation</u>
8	1) 24-Hour Intensive, "Quick-Look" at all the Air Quality and Meteorology of the C-b Tract from January 28-29, 1975	<ul style="list-style-type: none"> a) Computer hardcopy of 5 min. averages of all AQ and low altitude meteorology data for 5 stations, including Met. Tower with bivan operational at 100' and 200' b) Cloud and sky conditions (hourly) at the tract, location 023 (incl. temp. at 8', RH at 8', wind dir. at 30', wind speed at 30', Pasquill stability, net radiation index) c) Hourly meteorological observations at the C-b tract d) Hourly meteorological conditions at Grand Junction e) Synoptic reports for Grand Junction f) Meteorological summary g) Bivane vertical component of wind direction and associated standard deviations as 1 min. averages h) Effects of averaging time on σ_ϕ and Stability Class i) Acoustic sounder strip charts j) Acoustic sounder tabulated data of heights of turbulence layers and inversion layers k) Skew T, log p diagrams for Grand Junction l) Temperature sounding plots m) Temperature sounding tab. data (temp. vs alt.) n) Pilot balloon soundings o) Volatile trace metals (mercury, arsenic, selenium) p) Particulate size distribution via Anderson Sampler (Met Tower) q) SO₂ impinger sampling at Met Tower r) H₂S sampling via MSA portable sampling pump at SGI & ATI

TABLE II C-2 (Continued)

AIR QUALITY & METEOROLOGY BASIC DATA PRESENTATION GUIDE

<u>Ref. No.</u>	<u>Data Type</u>	<u>Presentation</u>
9	Air Temperature Inversions	Inversion characteristics, frequency analyses of number of occurrences, time of onset, time of breakup and sample data.

AIR QUALITY AND SURFACE METEOROLOGY

Under the lease stipulations, air quality data are required over at least 90% of the lease year at four stations, one of which is at (or as near as practicable) the expected point of maximum concentrations. Sulfur dioxide, hydrogen sulfide, and suspended particulates are required to be monitored at all stations. Hydrocarbons, oxides of nitrogen "and other pollutants" are also required to be monitored as directed by the Mining Supervisor. The required air quality monitoring system was completely operational as of 1 November 1974. Subcontractor (Radian Corp.) data reports for air quality and low altitude meteorology have been furnished through December 1974 as of the cutoff date of 28 February 1975 for this quarterly progress report. Figure II C-1 of Quarterly Report #1 shows the locations of the 5 air quality trailers and the meteorological tower. Trailers 020, 021, and 022 are located in the Piceance Creek valley at Redd Ranch, Rock School and the Gerald Oldland Ranch, respectively; trailers 023 and 024 are on the tract at the meteorological tower and on the ridge between Cottonwood and Sorghum Gulches, respectively.

<u>Table/Fig. No.</u>	<u>Description</u>	<u>Page</u>
Table II C-3	<u>Air Quality Summary, Trailer 020</u> This table summarizes air quality data maxima from Ref. 4 for the quarter (September, October, November, 1974). Data for trailers 021, 022, 023 follow. Table VI of Ref. 3 gives the daily average concentrations for the quarter.	II C-8
Table II C-4	Trailer 021	II C-9
Table II C-5	Trailer 022	II C-10
Table II C-6	Trailer 023	II C-11
Table II C-7	Trailer 024	II C-12
Table II C-8	<u>Particulate Concentration Distributions</u> This table summarizes the frequency distributions of particulate concentrations along with the geometric mean concentration.	II C-13

Basic data on air quality and surface meteorology are contained in References 1 through 9 at the end of this section.

TABLE II C-3 QUARTERLY SUMMARY (SEPTEMBER '74 - NOVEMBER '74)
(Concentrations in Micrograms per Cubic Meter)

TRAILER NO. 020

Recorded Parameter	Average	Maximum 24-hr. Concentration		Maximum 8-hr. Concentration		Maximum 3-hr. Concentration		Maximum 1-hr. Concentration		Maximum 5-min. Concentration	
		Value	Time	Value	Time*	Value	Time*	Value	Time*	Value	Time*
SO ₂	3.8	103.6	9/14 (16:00)			146.0	9/14 (16:05)	226.3 ²	9/18 (4:35)	264.4	9/14 (17:00)
H ₂ S	0.5							10.1	11/9 (20:00)	47.1	9/13 (15:30)
Particulates *	8.2 ¹	133	11/29								
Total Hydrocarbons	899.					1847.5	10/7 (6:00)			2995.0	10/15 (12:50)
CH ₄	826.1					1712.5	9/7 (6:00)			2995.0	10/15 (12:50)
Non-CH ₄ Hydrocarbons	73.4					197.6	11/25 (6:00)			1950.4	10/25 (18:10)
O ₃	47.4							139.4	9/30 (5:25)	574.6	9/30 (6:05)
NO _x	7.0							103.3	9/30 (15:55)	672.7	9/30 (16:05)
NO	1.7							44.3	11/10 (5:50)	74.9	10/6 (12:55)
CO	833.8			2023.0	10/4 (18:55)			4463.8	10/7 (5:50)	5661.8	10/17 (17:45)
NO ₂	5.0							102.2	9/30 (15:55)	672.7	9/30 (16:05)

1 - Geometric Mean, 2 - 30-Minute Averaging Time, *Start of interval of occurrence.

* Certain days are not reflected in the overall average and maxima reported due to incomplete data for those days.

TABLE II C-4 QUARTERLY SUMMARY (SEPTEMBER '74 - NOVEMBER '74)
(Concentrations in Micrograms per Cubic Meter)

TRAILER NO. 021

Recorded Parameter	Average	Maximum 24-hr. Concentration		Maximum 8-hr. Concentration		Maximum 3-hr. Concentration		Maximum 1-hr. Concentration		Maximum 5-min. Concentration	
		Value	Time	Value	Time*	Value	Time*	Value	Time*	Value	Time*
SO ₂	3.0	136	9/10 (22:00)			233/1	9/11 (12:30)	269.6 ²	10/7 (13:00)	742.1	9/11 (4:25)
H ₂ S	2.6							130.9	10/28 (20:00)	317.1	9/30 (17:30)
Particulates *	9.3 ¹	71.0	11/21								
Total Hydrocarbons											
CH ₄											
Non-CH ₄ Hydrocarbons											
O ₃											
NO _x											
NO											
CO											

1 - Geometric Mean, 2 - 30-Minute Averaging Time, *Start of time interval of occurrence.

* Certain days are not reflected in the overall average and maxima reported due to incomplete data for those days.

TABLE II C-5 QUARTERLY SUMMARY (SEPTEMBER '74 - NOVEMBER '74)
(Concentrations in Micrograms per Cubic Meter)

TRAILER NC 022

Recorded Parameter	Average	Maximum 24-hr. Concentration		Maximum 8-hr. Concentration		Maximum 3-hr. Concentration		Maximum 1-hr. Concentration		Maximum 5-min. Concentration	
		Value	Time	Value	Time*	Value	Time*	Value	Time*	Value	Time*
SO ₂	6.0	113.5	9/29 (20:00)			254.6	9/30 (2:55)	707.9 ²	9/15 (0:10)	1726.4	9/15 (0:35)
H ₂ S	0.6							14.1	10/1 (3:30)	1125.4	9/25 (17:30)
Particulates *	11.3 ¹	154.0	11/28								
Total Hydro- carbons											
CH ₄											
Non-CH ₄ Hydrocarbons											
O ₃											
NO _x											
NO											
CO											

*1 - Geometric Mean, 2 - 30-Minute Averaging Time, *Start of time interval of occurrence.

* Certain days are not reflected in the overall average and maxima reported due to incomplete data for those days.

TABLE II C-6 QUARTERLY SUMMARY (SEPTEMBER '74 - NOVEMBER '74)
(Concentrations in Micrograms per Cubic Meter)

TRAILER NO. 023

Recorded Parameter	Average	Maximum 24-hr. Concentration		Maximum 8-hr. Concentration		Maximum 3-hr. Concentration		Maximum 1-hr. Concentration		Maximum 5-min. Concentration	
		Value	Time	Value	Time*	Value	Time*	Value	Time*	Value	Time*
SO ₂	1.75	17.2	10/11 (3:00)			39.9	10/15 (15:20)	52.5 ²	10/21 (16:55)	205.8	10/21 (17:25)
H ₂ S	0.0							121.5	10/26 (13:15)	161.9	10/6 (18:10)
Particulates *	10.5 ¹	26.0	11/27								
Total Hydro- ** carbons	1064.6					18330.8	10/1 (6:00)			40376.3	11/21 (16:53)
CH ₄	149.7					13989.8	10/1 (6:00)			21338.9	10/7 (8:05)
Non-CH ₄ Hydrocarbons	933.0					17151.9	11/23 (6:00)			39816.2	11/22 (6:45)
O ₃	--							104.5	10/2 (17:10)	216.9	10/2 (7:00)
NO _x	6.7							181.2	9/29 (8:50)	270.5	9/29 (9:20)
NO	4.4							124.5	10/1 (1:05)	432.4	9/28 (14:40)
CO	3703.6			14098.2	11/14 (14:55)			14563.1	11/14 (15:25)	36521.3	10/14 (6:05)
NO ₂	4.6							178.2	9/29 (8:50)	234.7	9/29 (9:20)

1 - Geometric Mean, 2 - 30-Minute Averaging Time, *Start of time interval of occurrence.

* Certain days are not reflected in the overall average and maxima reported due to incomplete data for those days.

** High hydrocarbon readings reflect contaminated manifold.

TABLE II C-7 QUARTERLY SUMMARY (SEPTEMBER '74 - NOVEMBER '74)
(Concentrations in Micrograms per Cubic Meter)

TRAILER NO. 024

Recorded Parameter	Average	Maximum 24-hr. Concentration		Maximum 8-hr. Concentration		Maximum 3-hr. Concentration		Maximum 1-hr. Concentration		Maximum 5-min. Concentration	
		Value	Time	Value	Time*	Value	Time*	Value	Time*	Value	Time*
SO ₂	0.2	12.5	10/23 (2:00)			14.4	10/23 (5:15)	14.8 ²	10/23 (3:50)	15.6	10/23 (2:05)
H ₂ S	0.0							8.3	11/5 (15:55)	12.5	11/5 (16:20)
Particulates *	23.7 ¹	178.0	11/27								
Total Hydrocarbons											
CH ₄											
Non-CH ₄ Hydrocarbons											
O ₃											
NO _x											
NO											
CO											

1 - Geometric Mean, 2 - 30-Minute Averaging Time, *Start of time interval of occurrence.

* Certain days are not reflected in the overall average and maxima reported due to incomplete data for those days.

TABLE II C-8
 FREQUENCY DISTRIBUTION OF PARTICULATE CONCENTRATIONS
 SEPTEMBER 1974 - NOVEMBER 1974 *
 C-b SHALE OIL MONITORING PROJECT

CONCENTRATION $\mu\text{g}/\text{m}^3$	SITE 020	021	022	023	024
>260					
240-260					
220-240					
200-220					
180-200					
160-180					
140-160					2
120-140	1		1		0
100-120	0		0		0
80-100	0		0		0
60- 80	0	1	0		0
40- 60	0	0	0		0
20- 40	0	3	1	4	0
<20	11	14	5	5	2
TOTAL (No. of samples)	12	18	7	9	4
GEOMETRIC MEAN ($\mu\text{g}/\text{m}^3$)	8.2	9.3	11.3	10.5	23.7

* Certain days are not reflected in the composite reported here due to incomplete data for those days.

LOW ALTITUDE METEOROLOGY

The lease stipulations require a meteorological tower to be established in reasonable proximity to the plant site to monitor, at least 95% of the time, wind direction and wind speed at three levels, one at least 100 feet above the surface, one at approximately 30 feet and one at an intermediate level. Temperature is required at two levels, one at least 100 feet above the surface and one at approximately 30 feet. Humidity is required at one level.

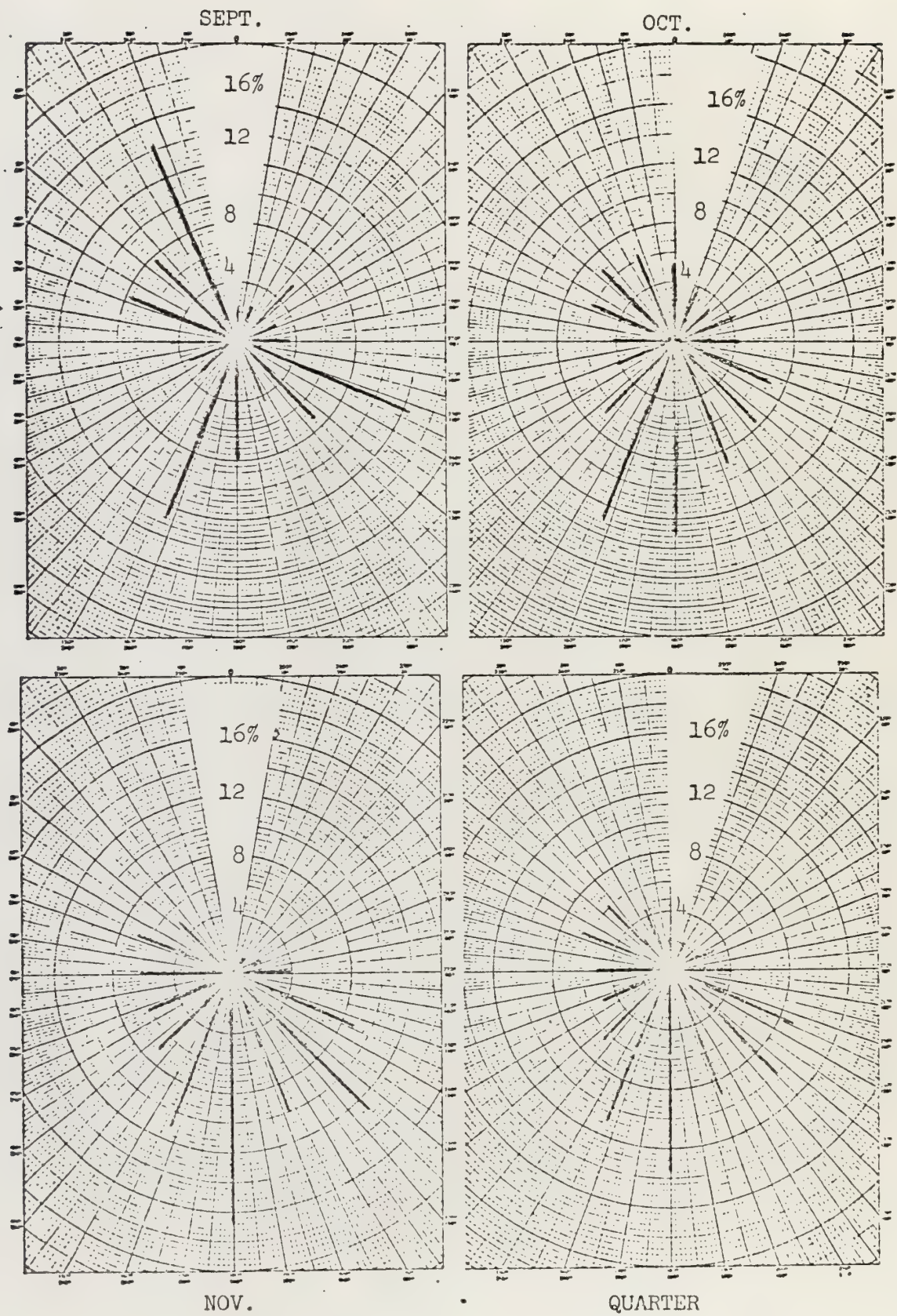
Low altitude meteorological tower data are obtained at 8', 30', 100' and 200' for wind direction and speed relative humidity, and temperature. Barometric pressure and daytime solar radiation are obtained at ground level. Temperature differences are obtained between the 30' and 100' levels and between the 30' and 200' levels.

Basic low altitude meteorological data are contained in Refs. 1 - 4 through December 1974 (as for air quality) at the end of this section. Wind roses by atmospheric stability class are presented in Table VIII of Ref. 4 for the 100' level of the meteorological tower.

<u>Table/Fig. No.</u>	<u>Description</u>	<u>Page</u>
Figure II C-1	<u>Wind Rose Diagrams</u> This figure presents wind roses for the 100' level of the meteorological tower for September, October, November 1974, and the quarter.	II C-15

FIGURE II C-1

WIND ROSES AT THE METEOROLOGICAL TOWER (100')



UPPER AIR STUDIES

There are no requirements in the lease stipulations for upper air studies. They are required in conditions of approval from the Mining Supervisor. Two winds aloft and temperature profiles per day to altitudes of 6000 feet above the tract are required for a minimum of 15 days per quarter.

Data for this reporting period were obtained by E G & G consultants for the wind and temperature profiles during the 15 day period from January 20 to February 9, 1975. Winds aloft were obtained from pibal releases at the meteorological tower; temperatures aloft were obtained via an instrumented aircraft. These data are correlated with the C-a Tract and with Grand Junction.

Basic data of the types indicated above are presented at the end of this section in References 5 and 6 by the E G & G Environmental Consultants.

In addition to the above instrumentation, an acoustic sounder was installed (but not required) at the meteorological tower location by Wm. Marlatt and Assoc. (consultants) on December 7, 1974 and became operational as of 2 January 1975. It is used to assist in assessing atmospheric stability by determination of the height and time-extent of unstable layers and stable layers, including inversions.

During the "quick-look" investigation (Ref. 8), atmospheric stability was assessed by seven techniques:

- 1) temperature - altitude soundings
- 2) temperature differences on the meteorological tower
- 3) wind speed
- 4) solar radiation index
- 5) standard deviations in the horizontal component of wind direction
- 6) standard deviations in the vertical component of wind direction
- 7) acoustic sounder

VISIBILITY

There are no visibility requirements in the lease stipulations; site visibility measurement are required in the conditions for approval by the Mining Supervisor.

A joint proposal request with the C-a Tract is currently being prepared.

ATMOSPHERIC DIFFUSION STUDIES

There are no requirements in the lease stipulations for atmospheric diffusion studies. Conditions for approval from the Mining Supervisor require X/Q estimates for 24-hour and 3-hour averages.

These studies will be initiated at a future date when stack emission data become available.

An assessment of atmospheric stability will probably be required for input to diffusion models. This assessment has been initiated and is reported both in Subsection II C-3 and in Reference 8.

RADIAN CORPORATION

RC#100-056

AIR MONITORING REPORT
FOR
C-b SHALE OIL PROJECT
OCTOBER 1974
Report No. 2

8 January 1975

Presented to:
C-b Shale Oil Project
Suite 555, Two Park Central
1515 Arapahoe Street
Denver, Colorado 80202
Attn: Mr. Max Legatski

Prepared by:
Radian Staff

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I. GENERAL DESCRIPTION OF AIR MONITORING PROGRAM

Radian Corporation is under contract to C-b Shale Oil Projects to provide ambient air quality monitoring. Each site measures and records the concentration of particulates, sulfur dioxide, and hydrogen sulfide. In addition, two of the sites record the amounts of nitrogen oxides, total hydrocarbon, methane, ozone, and carbon monoxide. Selected meteorological parameters such as wind speed, wind direction, temperature, and rainfall are monitored at each station. A 200-foot meteorological tower at one of the sites provides meteorological information as a function of height.

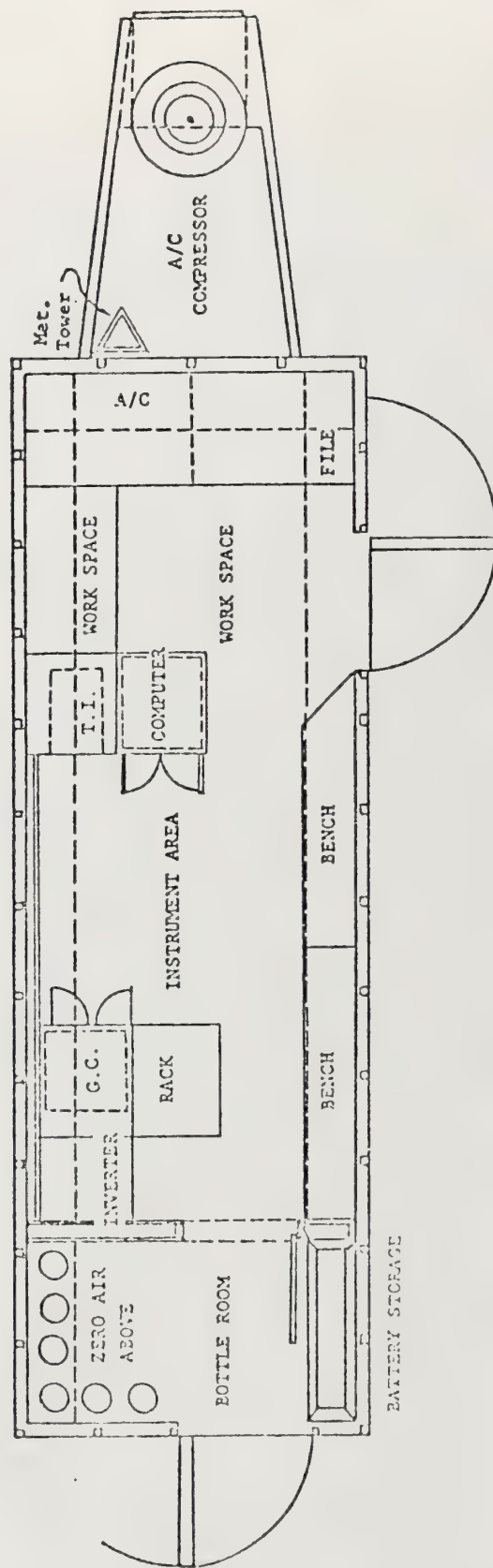
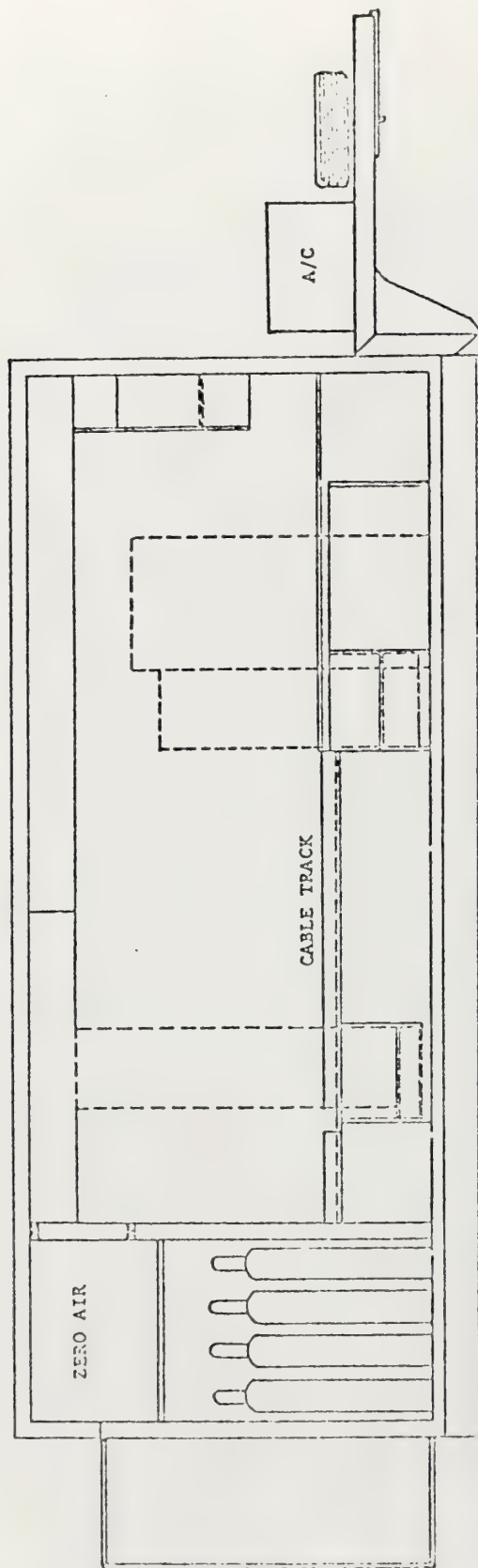


Figure 1

II. DESCRIPTION OF INSTRUMENT SYSTEMS

A. Air Quality Instrumentation

Nitrogen oxides are measured with a Meloy Model NA520 analyzer. This dual-channel analyzer is based on the chemiluminescent principle, and continuously monitors both NO_x and NO . A subtraction circuit in the instrument provides a continuous NO_2 output, but is not used in Radian's system. NO_2 is calculated once a second by the computer by subtracting the NO value from the NO_x value, thus avoiding any drift which might occur in the NO_2 output of the instrument. This instrument has a maximum detectable sensitivity of 5 ppb (parts per billion), and a linearity of 1%.

Both sulfur dioxide and hydrogen sulfide are measured with Meloy Model SA185 sulfur analyzers. The hydrogen sulfide analyzer uses a Meloy Model SO_x -1 sulfur dioxide scrubber and the sulfur dioxide analyzer uses a Meloy Model H_2S -1 hydrogen sulfide scrubber. The Model SA185 is a continuous analyzer, and utilizes the flame photometric principle of operation. The minimum detectable sensitivity is 5 ppb, and the linearity is $\pm 1\%$.

Ozone is measured with a Meloy Model OA350 analyzer. This instrument provides continuous measurement of ozone, and is based on the chemiluminescent principle. The minimum detectable sensitivity is 0.5 ppb and the linearity is 1%.

Total hydrocarbons, methane, and carbon monoxide are monitored with a Bendix Model 8200 gas chromatograph analyzer. This instrument uses a plume ionization detector and has a minimum detectable sensitivity of 5 ppb for all three components. The Model 8200 works on a five-minute cycle, i.e., one air sample is analyzed every five minutes.

The air sample is drawn in through a glass cane and manifold supplied by the Ace Glass Company. The system has a 25mm diameter, and a constant air flow through the system is provided by an air pump rated at 60 cfm at 0" head pressure. The manifold has sampling ports to which $\frac{1}{4}$ " teflon lines to the instruments are connected. All joints in the sampling system are secured by O-ring compression fittings. The manifold is contained in a heated (100°F) chamber to prevent condensation of moisture. The teflon lines from the manifold to the instruments are insulated with 1/8" wall thickness rubber tubing.

The trailer has four heavy duty high volume particulate samplers (Hi-Vols). Fiberglass filter paper is used for collection of particulate samples, and each filter is brought to a controlled humidity before weighing. Each Hi-Vol has a flow recorder to permit correction for changes in air flow as the filter becomes loaded with particulates. Each Hi-Vol runs for a 24-hour period (midnight to midnight), and is turned on and off by the computer. The Hi-Vols were designed following guidelines recommended by the Environmental Protection Agency and were manufactured by Radian.

B. Calibration Procedures

Each trailer contains a Meloy Model RAD-1 calibration unit. This instrument provides a zero air supply, SO₂ span gas from an SO₂ permeation tube, and NO span gas obtained by precisely diluting bottled NO span gas. The calibration of all instruments is automatically performed once a day, and is controlled by the computer. Each instrument is first switched to zero, and the computer monitors the output of each channel and takes a new zero reading after a stable zero signal has been reached. This zero reading is compared by the computer to the zero reading

obtained 24 hours before, and if a drift in excess of 10ppb has occurred, an excess zero drift light for the channel in question is turned on on the System Status Panel. Next, span gas is supplied to each channel and the computer decides when a stable span value has been reached. This value is recorded and compared to the previous day's value. An excess span drift light on the System Status Panel is turned on if a drift exceeding 10ppb occurs. The instruments are then returned to the monitor mode, and after two minutes the computer resumes data taking.

The bottled NO gas used at each site was obtained from Precision Gas Products. Pre-purified grade hydrogen is used in the SO₂ analyzers.

The SO₂ permeation tubes were manufactured by Metronics Association, Inc. Their output has been verified by comparison to the output of National Bureau of Standards tube 10-42. Both SA185 analyzers in each trailer are calibrated with SO₂ from the permeation tube. This instrument responds to the number of sulfur atoms per molecule, thus SO₂ can be used to calibrate both the H₂S and SO₂ monitors

The Model OA350 ozone analyzer has its own calibration system which provides a zero check and a span check. The ozone calibration system is verified by comparison to a calibrated ozone generator maintained in Radian's laboratory in Rifle.

The Model 8200 total hydrocarbon, methane, and carbon monoxide analyzer is calibrated with undiluted span gas obtained from Airco's Rare and Specialty Gas Division. This span gas contains methane and carbon monoxide in air, the methane being used to calibrate both the total hydrocarbon channel and the methane channel. The Model 8200 is zeroed with air from a

Bendix Model 8834 zero air unit. In addition the instrument is electronically re-zeroed at the start of every five-minute cycle.

The Hi-Vol particulate samplers were calibrated using a Calibration Kit from General Metal Works.

C. Data Acquisition System

The basis of the data acquisition system is a Data General NOVA 1200 minicomputer. The NOVA which has a basic cycle time of 1.2 μ sec is equipped with automatic program load and power fail/automatic restart features. The computer utilizes 16K 16-bit words of core memory. Analog-to-digital conversion is accomplished via an ADC built by Radian Corporation. The input/output unit for the system is Texas Instrument's KSR 733 keyboard/printer. This model teletype provides keyboard entry and hard copy printed output. The data are also recorded on a cassette magnetic tape unit with three drives. The cassette unit is utilized for program storage and loading as well as recording. The power to the teletype and cassette units is turned on only when the unit(s) is to be used to reduce wear on mechanical parts. Several important functions in the instruments as well as in the computer and the trailer are monitored by means of lights on a System Status Panel. These data lights are written onto cassette tape to monitor the complete status of the system every five minutes. The Data Acquisition System also monitors the presence of 110V power from the power lines. In its absence, the computer, which is powered by batteries, switches all trailer systems to battery-provided power. If the line voltage is restored before the batteries are discharged to a specified level, the trailer system is switched back to line power.

D. Meteorological Instrumentation

1. Ambient Air Monitoring Trailers

Four of the ambient air monitoring trailers are equipped with the following meteorological instrumentation: (1) dry bulb temperature (outside), (2) relative humidity, (3) wind direction, (4) wind speed, and (5) a tipping bucket, heated rain/snow gage. The temperature probe and relative humidity sensor are mounted inside a motor aspirated radiation shield, the Model 1S6 Aspirated Radiation Shield by Weather Measure, which gives an aspiration of approximately 100 cfm. The wind instrumentation and temperature and relative humidity apparatus (in the aspirated radiation shield) are all mounted atop a 33-foot crank-up meteorological tower (the WM-33, by Weather Measure) at each of the four trailer sites.

The wind instrumentation at the monitoring trailers consists of the Model W103/3L Lightweight Cup Anemometer by Weather Measure and the Model W104-2 Lightweight Vane by Weather Measure. The anemometer is a high response, low threshold wind system which offers the optimum in versatility and economy. For low threshold applications, a unique frictionless tachometer employing a high frequency oscillator and receiver is used to measure precisely wind speed. The oscillator, transmitter, and receiver are encapsulated in a small cube of epoxy for total protection against the environment. The high frequency tachometer embodies several distinct advantages over the commonly used light chopper systems. There are no light bulbs or photocells to burn out; power consumption is low; and the system is insensitive to moisture condensation or dust deposition. The solid state tachometer is essentially free from maintenance with a life of well over five years when operated continuously. The specifications of the W103 Cup Anemometer are as follows:

- Accuracy: $\pm 1\%$ or .15 mph, whichever is greater.
- Bearings: Sealed and shielded precision stainless steel.
- Threshold: 0.6 miles per hour
- Distance Constant: 5 feet

The wind vane, the W104-2, is equipped with a 1000 ohm low torque potentiometer and two wipers for 0° to 540° operations. The response characteristics of this vane are:

- Dead Bank: 0 degrees
- Damping Ratio: 0.4
- Distance Constant: 3.5 feet
- Threshold: 0.75 miles per hour
- Potentiometer Linearity: 0.5%

The thermistor probe used in the motor aspirated radiation shields is the Model T621-TP18X Air Temperature Premium Thermistor Probe by Weather Measure. This probe has a range of -50°C to $+50^{\circ}\text{C}$ and an interchangeability of $\pm 0.055^{\circ}\text{C}$. The output signal accuracy is $\pm 0.3^{\circ}\text{F}$.

The relative humidity sensor is the Model 2013 Remote Reading Relative Humidity System by Texas Electronics. The sensor assembly contains a newly-developed hygroscopic inorganic sensing

element. Its expansion and contraction positions the suspended core of a linear variable differential transformer (LVDT). The absence of friction inducing linkages and wiping contacts minimizes hysteresis and improves accuracy. The LVDT output signal, when processed, is directly proportional to relative humidity. The specifications of this instrument are as follows:

- Range of Indication: 0% to 100% RH
- Response: The sensor response time to a step change of 10% in relative humidity is less than 2 minutes with the sensor exposed to moving air.
- Accuracy: 5% - 15% RH; \pm 5% RH
15% - 95% RH; \pm 2% RH
95% -100% RH; \pm 3% RH
- Signal Output: Analog signal of -150 mv. to +150 mv. with electrical zero at 50% RH is standard.

Each of the four monitoring trailers is equipped with a Model P511-E Remote Recording Heated Snow Gage by Weather Measure. In the case of this gage, the durability and reliability of a tipping bucket gage are combined with heavy-duty electric heaters to make this an all-purpose precipitation sensor. This gage may be used to measure snowfall and rainfall. An insulating cover of poly-vinyl chloride and a thermostatic control insure the proper gage temperature. The thermostatic control is adjustable from 0 to 35°C. Snow falling into the inlet funnel is melted. The resulting water (from rain or snow) drains into a precision tipping bucket mechanism which activates a mercury switch each time the bucket fills and tips. The gage is constructed

of durable corrosion-resistant materials to provide many years of service. The specifications of this gage are as follows:

- Orifice: 8 inches
- Calibration: 0.01 inch
- Accuracy: 0.5% (Calibrated at 0.5 in/hr)
- Sensor: Chrome plated tipping buckets
- Switch: Mercury, 0.1 second closure
- Heat Control: Thermostat adjustment, 0 to 35°C.

2. 200-Foot Meteorological Tower

The tower has instrumentation at four levels: 8 feet, 30 feet, 100 feet, and 200 feet. At all four levels, there are: wind speed, wind direction, and temperature and relative humidity sensors in a power aspirated radiation shield. Temperature difference thermistors (also in power aspirated radiation shields) and their associated circuitry take lapse rate measurements for the 30-foot to 100-foot layer and the 30-foot to 200-foot layer. In addition, this site has a Precision Spectral Pyranometer, a barometer, and a tipping bucket rain/snow gage.

The wind direction and speed apparatus used at each measurement level of the tower is the Model 1074-2 wind sensor by Meteorological Research, Inc. (MRI). This sensor has a 540° potentiometer for wind direction and a light chopper for wind speed. This sensor is rugged, with an all-weather coaxial cup and

damped vane assembly. The prototype model has been in operation for years under the most demanding weather conditions, performing continuously with the utmost reliability. All of the wind sensors on the tower have been specially treated with a black paint which will promote warming of the exposed surfaces of the sensor and thereby reduce ice and snow accumulations on the moving parts of the apparatus. The specifications on the Model 1074-2 are as follows:

Wind Speed

- Starting Threshold: 0.75 mph
- Response Distance: 18 feet (63% recovery)
- Flow Coefficient: 7.9 feet/Revolution
- Accuracy: ± 0.4 mph or 1% (whichever is greater)
- Range: 0-100 mph

Wind Direction

- Starting Threshold: 0.75 mph
- Delay Distance: 4 feet (50% recovery)
- Damping Ratio: 0.5 to 0.6
- Accuracy (540° system): $\pm 1\%$
- Range: 0° to 540°

The relative humidity and temperature sensors are mounted within a power aspirated radiation shield at each tower level. All aspirators and sensors are of the Model 840 Series by MRI. The aspirated shielded housing is designed to provide maximum radiation protection to the sensor. Ambient air is drawn into the shield and across the sensors at approximately 15 feet per second. This intake air is essentially sampled from a hemispherical space which is approximately 3-inch radius from the tube opening. Speed of the incoming air at the periphery of this hemisphere is approximately 1 mph.

The temperature sensor is comprised of a dual thermistor and resistor network. This circuit provides a linear resistance change with an air temperature change. The relative humidity sensor is placed alongside the temperature elements inside the shield where it is exposed to a constant flow of air. Circulation to both sides of the sensing element produces accurate monitoring with a good response time. The specifications on the sensing elements are as follows:

Temperature

- Accuracy: $\pm 0.25^{\circ}\text{C}$
- Range: -50°C to $+50^{\circ}\text{C}$

Humidity

- Accuracy: $\pm 3.0\%$ RH
- Range: 0% to 100% Relative Humidity

Measurements of temperature difference are taken for two layers, the 30-foot to 100-foot layer and the 30-foot to 200-foot

layer. The thermistors and circuitry used for these measurements are separate from the thermistors measuring air temperature. The use of separate thermistors and circuitry to measure ΔT allows for much greater accuracy and resolution in the measurements, which is necessary for stability assessments. Two ΔT thermistors are at the 30-foot level, one is at the 100-foot level, and one is at the 200-foot level. All of these ΔT thermistors are mounted within power aspirated radiation shields. The specifications on the ΔT instrumentation are as follows:

- Accuracy: $\pm 0.1^{\circ}\text{C}$
- Range of ΔT Circuit
(Lower Level-Upper Level): $+4^{\circ}\text{F}$ to -8°F

All instrumentation, except at the ground level, is mounted at the end of 12-foot retractable booms. These booms are 3-inch box beams which are on rollers and can be retracted to the instrument platforms for instrument maintenance.

The meteorological tower itself is a 200-foot Rohn Model 80 Guyed Tower, designed for 40 pounds per square foot wind load with $\frac{1}{2}$ " of radial ice per EIA Standard RS-222-B, to support four levels of meteorological equipment. The material consists of tower sections with a tapered base, three retractable booms 12-feet long, three outside work platforms, an inside ladder for climbing, two base ground kits and one anchor ground kit. The cable-type Safety Climbing Device consists of a cable and attachment mechanisms with a locking sleeve and safety belt. The tower is lighted and painted according to FAA specifications.

The signals from the tower instrumentation are fed from multiple signal cables into transmitters mounted at the base of

the tower. After signals have been converted to analog signals, they are fed into a junction box, also at the tower base, where they are assimilated into one coaxial cable. The signals are then run underground within 3" PVC conduit to the A-to-D assembly, where they are processed. The transmitters are shielded and insulated from the elements. The signal cable is run underground in PVC conduit in order to minimize damage from the weather or various rodents in the region.

The auxiliary equipment at the tower site consists of a heated tipping bucket rain/snow gage, an analog barometer, and a Precision Spectral Pyranometer. The rain/snow gage is the Model P511-E unit by Weather Measure, with characteristics and specifications as described in Section 1. The barometer is the B242 Analog Output Barometer by Weather Measure. This barometer provides an output voltage that is linearly proportional to pressure. The specifications on this instrument, which is mounted inside the monitoring trailer at the site, are as follows:

- Range: Specially designed for the 100 millibar interval from 725 millibars to 825 millibars.
- Resolution: Infinite
- Linearity: ± 0.5 millibar, over the 100 millibar interval

The pyranometer at the site is the Eppley Precision Spectral Pyranometer. This instrument is used for the measurement of sun and sky radiation totally or in defined wavelength bands. The pyranometer is levelled and mounted atop a wooden stand $4\frac{1}{2}$ feet from the ground surface. Care has been taken to

eliminate the effects from all outside influences, such as reflection or shadows, on the pyranometer. The instrument characteristics are as follows:

- Sensitivity: 5 mv. per cal/cm²/min
- Independence: 300 ohms
- Temperature dependence: Sensitivity constant to within ± 1 percent over the ambient temperature range from -20 to +40°C
- Linearity: Response linear up to intensities of 4 cal/cm²/min
- Response Time: 1 second (i/e signal)

All instrumentation is factory calibrated and is field-calibrated at various intervals. Sling psychrometers are used to calibrate the humidity sensors, known temperatures and/or resistances are used to calibrate the thermistors, and an rpm calibrating unit is used to calibrate the anemometers. The wind direction instrumentation is aligned to true north (reference direction) by means of a surveyor's transit.

III. MICROMETEOROLOGICAL AND TERRAIN FEATURES

The Piceance Creek Valley and C-b Oil Shale Tract are situated such that many microscale meteorological phenomena affect the region where the ambient air monitoring units are located. In particular, the three units in the Piceance Creek Valley (Trailers 020, 021, and 022) are heavily influenced by a katabatic-anabatic flow regime. Trailer 023 and its associated 200-foot meteorological tower are located atop a plateau to the south of the valley, high enough to be affected mostly by gradient flow conditions. Trailer 024, located half-way between the valley and the meteorological tower, is affected by a mixture of the gradient and mountain-valley flow regimes.

Elevations in the monitoring network range from about 6200 feet above sea level at Trailer 021, near the Rock Creek School in the valley at the westernmost end of the monitoring network, to 6940 feet at the meteorological tower site (Trailer 023) atop the plateau within the Tract C-b itself. The largest gradients in elevation in this area, of course, occur at the Piceance Creek Valley walls. However, the northern valley walls are slightly steeper than those at the southern boundary of the valley, which then slopes upward gradually toward the C-b Tract. The Piceance Creek Valley decreases in elevation from east to west in this area, so that nighttime katabatic cold-air drainage flows advect from east to west, or from Trailer 022 to Trailer 020 to Trailer 021.

As mentioned at the outset of this discussion, the terrain will have a large influence on the meteorology of this region. Considering first Trailer 022, at the eastern end of the monitoring network, a nighttime katabatic (valley or down-slope) flow will exert a tremendous influence on this site.

Of the three monitoring locations in the Piceance Creek Valley, this site has the steepest valley walls in its vicinity. As a result, the nighttime katabatic flow is strongest here. That is, the downslope winds are constrained or channelled at this point such that the nighttime drainage winds often reach 15 miles per hour. In addition, the channelling effects of the Piceance Creek Valley walls normally cause surface winds to flow from one of two preferred directions. At night, the downslope winds parallel the valley contours, generally coming from 115° (east-southeast, referenced to true north). During the afternoon, or whenever suitable pressure gradient conditions exist, the winds generally come from the west-northwest because of the boundary conditions and channelling caused by the valley. This monitoring location has an elevation of approximately 6450 feet above sea level and is at the mouth of Oldland Gulch.

Trailer 020, midway down the Piceance Creek Valley near the Redd Ranch, at the mouth of Gardenhire Gulch, has an elevation of about 6320 feet above sea level. Once again, the valley walls are steeper to the north of this monitoring location. The Piceance Creek Valley widens a little from Trailer 022 to Trailer 020, so that channelling effects are not quite as great at this location. Nevertheless, a well-developed katabatic-anabatic flow cycle affects this site, with the afternoon anabatic flow being fairly well-developed at this location. The channelling effects of the valley walls cause two preferred surface wind directions, southeast and northwest. However, other wind directions are experienced here, particularly during the transition periods between downslope and upslope flows and during periods when the surface pressure gradient dictates to a large degree the surface wind direction.

Trailer 021, located near the Rock Creek School, has the lowest elevation of the three valley trailers, 6200 feet. At this point, the Piceance Creek Valley widens considerably toward the east, so that nighttime katabatic winds are rather light. Daytime anabatic winds are also rather light. However, northwesterly surface winds caused by pressure gradient forces are occasionally moderate in force because of the slight channeling effects of the valley walls to the north and northwest.

Site 023, where the 200-foot meteorological tower is located, is atop the plateau at an elevation of about 6940 feet above sea level. It is approximately 2.5 miles south of the Piceance Creek Valley. This location is relatively high compared to its surroundings, with the nearest points having elevations greater than 7000 feet being .5 miles to the south of the tower. The tower itself is on the top of a small knoll located between Scandard and Sorghum Gulches. Because of its location and the irregularities of the surrounding terrain, meteorological patterns are varied here.

Wind instrumentation is mounted at four levels of the meteorological tower: 8 feet, 30 feet, 100 feet, and 200 feet. The top level of the tower generally remains in gradient wind flow. That is, the winds at that level are normally generated by synoptic-scale features and are usually separated from terrain features and micrometeorological circulations. Occasionally, a weak anabatic flow influence is experienced. However, such is not the case with the three lowest measurement levels. To varying degrees, these levels are influenced by both the katabatic and anabatic circulation cells. However, when strong pressure gradient forces exist in the region and the synoptic-scale wind flow is strong, all four tower levels will reflect a gradient wind flow, with the winds increasing in strength with increasing height.

Trailer 024 is between the Piceance Creek Valley and the meteorological tower location, about 1 mile south of the valley itself. The elevation of this site is approximately 6740 feet. The terrain slopes downward to the west, north, and east, and slopes upward toward the south, in the direction of the meteorological tower. This site is in a transition zone between the micrometeorological effects which prevail in the valley and those meteorological phenomena affecting the tower site. As a result, the meteorological parameters measured at this location are subject to rather rapid variations. The area is generally affected by a weak katabatic (downslope) flow at night and a weak anabatic (upslope) flow during the afternoon hours. However, gradient wind flows generally take precedence over terrain-induced flows at this location.

The terrain atop the plateau is generally barren and fairly rugged, with a few scattered small trees. The topsoil dries rapidly and is very fine, resulting in blowing dust when dry, windy conditions exist. In the Piceance Creek Valley, the terrain is fairly grassy and flat, with steep valley walls on either side. Surface winds are normally rather light in this valley unless channelling effects occur.

During clear nights with rather light pressure gradient-induced winds, rapid radiational cooling will occur in the region because of the barren nature of the terrain and the generally dry character of the air in this portion of the country. As a result, the diurnal range of temperatures will be extremely large. Because of the katabatic flow in the valley, nighttime temperatures will generally be lower in the valley than on the plateau. During the winter, especially, temperatures in the valley may be 20°F lower than they are on the plateau during the early morning hours. In particular, the drainage effects will be spectacular at Trailer 021, which will often experience

temperatures 10°F cooler than those at the other valley monitoring locations during the early morning hours. This phenomenon results from the pooling of cold air in the area of Trailer 021 because of its relatively low elevation and the light nature of the winds here during the night, which thus inhibits surface mixing and promotes the strengthening of the nighttime ground-based inversion. During periods of strong gradient winds and/or cloudy skies, greater mixing of the air near the surface occurs and meteorological conditions (particularly temperature and humidity) are more uniform throughout the monitoring network (on the plateau and in the valley).

IV. OPERATING TIME ANALYSIS FOR EACH SITE

This section presents the operating statistics for each of the major subsystems contained in each monitored station. Table II shows the specific number of hours that each of these subsystems was inoperative for the month. The column labeled "COMPUTER" indicates the entire data acquisition system and downtime hours appearing in this column and, therefore, means total loss of data. These instances include, in addition to computer downtime, power failures, no power available, and self-automated shutdown periods such as during air conditioner malfunctions.

Calibration time is not considered to be downtime and is, therefore, not included in the downtime figures. The amount of time used in calibrating the instruments is given at the bottom of the downtime analysis table and is reported as total calibration hours for each channel for the entire month. As is evident in the calibration figures, channels can be calibrated independently of one another. No calibration time is given for particulate monitoring since Hi-Vol calibration occurs infrequently and only during the off-duty cycle for each Hi-Vol while another Hi-Vol is taking data.

TABLE II.
DOWNTIME HOURS FOR ATLANTIC RICHFIELD MONITORING PROJECT

TRAILER 020

DATE	COMPUTER	NOX	NO	SO2	PART	H2S	THC	CH4	CO	O3	WS	WD	RH	TEMP
12/1	0.	0.	0.	0.	24.	0.	24.	24.	10.	0.	0.	0.	0.	0.
12/2	3.	0.	0.	0.	24.	0.	11.	11.	0.	0.	0.	0.	0.	0.
12/3	7.	4.	4.	0.	24.	21.	23.	23.	0.	0.	0.	0.	0.	0.
12/4	0.	1.	1.	24.	24.	3.	22.	22.	0.	0.	0.	0.	0.	0.
12/5	0.	12.	12.	24.	24.	0.	21.	21.	0.	0.	0.	0.	0.	0.
12/6	0.	1.	1.	23.	24.	0.	13.	20.	11.	0.	0.	0.	0.	0.
12/7	0.	0.	0.	3.	24.	0.	17.	24.	18.	0.	0.	0.	0.	0.
12/8	2.	0.	0.	0.	24.	0.	24.	24.	24.	0.	0.	0.	0.	0.
12/9	0.	0.	0.	0.	24.	0.	22.	22.	22.	0.	0.	0.	0.	0.
12/10	0.	0.	0.	0.	0.	0.	24.	24.	24.	0.	0.	0.	0.	0.
12/11	7.	0.	0.	0.	24.	0.	24.	24.	24.	0.	0.	0.	0.	0.
12/12	0.	0.	0.	0.	24.	0.	24.	24.	24.	0.	0.	0.	0.	0.
12/13	0.	0.	0.	0.	24.	0.	24.	24.	24.	0.	0.	0.	0.	0.
12/14	0.	0.	0.	0.	24.	0.	24.	24.	24.	0.	0.	0.	0.	0.
12/15	0.	0.	0.	0.	0.	0.	13.	17.	13.	0.	0.	0.	0.	0.
12/16	0.	0.	0.	0.	24.	0.	0.	24.	0.	0.	0.	0.	0.	0.
12/17	0.	0.	0.	0.	0.	0.	0.	24.	0.	0.	0.	0.	0.	0.
12/18	4.	0.	0.	0.	24.	0.	0.	24.	0.	0.	0.	0.	0.	0.
12/19	0.	0.	0.	0.	0.	0.	1.	11.	0.	1.	0.	0.	0.	0.
12/20	0.	0.	0.	0.	0.	0.	20.	20.	20.	0.	0.	0.	0.	0.
12/21	0.	11.	11.	0.	0.	0.	22.	22.	23.	0.	0.	0.	0.	0.
12/22	0.	24.	24.	0.	24.	0.	15.	15.	19.	0.	0.	0.	0.	0.
12/23	0.	0.	0.	0.	0.	0.	0.	23.	20.	0.	0.	0.	0.	0.
12/24	0.	0.	0.	0.	0.	0.	0.	23.	18.	0.	0.	0.	0.	0.
12/25	1.	1.	1.	0.	24.	0.	1.	3.	13.	1.	0.	0.	0.	0.
12/26	3.	0.	0.	0.	0.	0.	7.	13.	6.	1.	0.	0.	0.	0.
12/27	0.	0.	0.	0.	0.	0.	21.	21.	0.	0.	0.	0.	0.	0.
12/28	0.	0.	0.	0.	24.	0.	21.	21.	0.	0.	0.	0.	0.	0.
12/29	0.	1.	1.	1.	24.	1.	13.	13.	1.	1.	1.	1.	0.	0.
12/30	9.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
12/31	1.	0.	0.	0.	24.	0.	0.	20.	20.	0.	0.	0.	0.	0.
CALIBRATION TIME		6.	6.	5.		5.	12.	11.	12.	5.	0.	0.	0.	0.

TABLE II,
DOWNTIME HOURS FOR ATLANTIC RICHFIELD MONITORING PROJECT

TRAILER 022

DATE	COMPUTER	SO2	PART	H2S	WS	WD	RH	TEMP
10/ 1	2.	0.	24.	0.	0.	0.	0.	0.
10/ 2	0.	0.	24.	0.	0.	0.	0.	0.
10/ 3	0.	0.	24.	0.	0.	0.	0.	0.
10/ 4	2.	0.	24.	0.	0.	0.	0.	0.
10/ 5	24.	0.	24.	0.	0.	0.	0.	0.
10/ 6	24.	0.	24.	0.	0.	0.	0.	0.
10/ 7	24.	0.	24.	0.	0.	0.	0.	0.
10/ 8	24.	0.	24.	0.	0.	0.	0.	0.
10/ 9	24.	0.	24.	0.	0.	0.	0.	0.
10/10	24.	0.	24.	0.	0.	0.	0.	0.
10/11	24.	0.	24.	0.	0.	0.	0.	0.
10/12	24.	0.	24.	0.	0.	0.	0.	0.
10/13	24.	0.	24.	0.	0.	0.	0.	0.
10/14	24.	0.	24.	0.	0.	0.	0.	0.
10/15	24.	0.	24.	0.	0.	0.	0.	0.
10/16	24.	0.	24.	0.	0.	0.	0.	0.
10/17	24.	0.	24.	0.	0.	0.	0.	0.
10/18	24.	0.	24.	0.	0.	0.	0.	0.
10/19	24.	0.	24.	0.	0.	0.	0.	0.
10/20	24.	0.	24.	0.	0.	0.	0.	0.
10/21	24.	0.	24.	0.	0.	0.	0.	0.
10/22	24.	0.	24.	0.	0.	0.	0.	0.
10/23	11.	13.	24.	1.	1.	1.	1.	1.
10/24	0.	24.	24.	0.	0.	0.	0.	0.
10/25	0.	24.	24.	0.	0.	0.	0.	0.
10/26	0.	24.	24.	0.	0.	0.	0.	0.
10/27	0.	24.	24.	0.	0.	0.	0.	0.
10/28	0.	24.	24.	0.	0.	0.	0.	0.
10/29	0.	24.	24.	0.	0.	0.	0.	0.
10/30	0.	24.	24.	0.	0.	0.	0.	0.
10/31	0.	24.	0.	0.	0.	0.	0.	0.
CALIBRATION TIME		0.		1.	0.	0.	0.	0.

TABLE II.
DOWNTIME HOURS FOR ATLANTIC RICHFIELD MONITORING PROJECT

TRAILER 021

DATE	COMPUTER	S02	PART	H2S	WS	WD	RH	TEMP
10/ 1	0.	0.	24.	0.	0.	0.	0.	0.
10/ 2	0.	0.	24.	0.	0.	0.	0.	0.
10/ 3	0.	0.	24.	0.	0.	0.	0.	0.
10/ 4	0.	0.	24.	0.	0.	0.	0.	0.
10/ 5	0.	0.	24.	0.	0.	0.	1.	0.
10/ 6	0.	0.	24.	0.	0.	0.	0.	0.
10/ 7	1.	0.	24.	0.	0.	0.	0.	0.
10/ 8	0.	0.	24.	0.	0.	0.	0.	0.
10/ 9	5.	0.	24.	0.	0.	0.	0.	0.
10/10	0.	0.	24.	0.	0.	0.	0.	0.
10/11	0.	0.	0.	0.	0.	0.	0.	0.
10/12	0.	0.	24.	0.	0.	0.	0.	0.
10/13	0.	0.	24.	0.	0.	0.	0.	0.
10/14	11.	0.	24.	0.	13.	0.	0.	0.
10/15	0.	0.	0.	0.	24.	0.	0.	0.
10/16	0.	0.	0.	0.	24.	0.	0.	0.
10/17	6.	0.	24.	0.	18.	0.	0.	0.
10/18	23.	0.	0.	0.	0.	0.	0.	0.
10/19	1.	0.	0.	0.	0.	0.	0.	0.
10/20	1.	0.	0.	0.	0.	0.	0.	0.
10/21	0.	0.	24.	0.	0.	0.	0.	0.
10/22	0.	0.	24.	0.	0.	0.	0.	0.
10/23	0.	0.	0.	3.	0.	0.	0.	0.
10/24	0.	0.	0.	0.	0.	0.	0.	0.
10/25	1.	0.	24.	0.	0.	0.	0.	0.
10/26	0.	0.	24.	0.	0.	0.	0.	0.
10/27	0.	0.	24.	0.	0.	0.	0.	0.
10/28	12.	0.	0.	0.	0.	0.	0.	0.
10/29	0.	0.	0.	0.	0.	0.	0.	0.
10/30	0.	3.	0.	0.	0.	0.	0.	0.
10/31	0.	0.	0.	0.	0.	0.	0.	0.
CALIBRATION TIME		6.		5.	0.	0.	0.	0.

DIGITIZING

8-F-T-----

DATE	SYSTEM	NOX	NO	SO2	PART	H2S	THC	CH4	CO	O3	WS	WD	RH	TEMP	PYR	PRR
10/1	4	0	0	0	24	0	0	0	1	0	1	0	0	0	20	23
10/2	3	0	0	1	24	0	0	0	0	0	1	0	1	0	21	21
10/3	17	0	0	1	24	0	0	0	0	0	0	0	0	0	7	7
10/4	14	10	10	1	24	0	4	4	0	0	0	0	0	0	10	10
10/5	0	24	24	0	24	24	23	23	23	20	0	0	0	0	24	24
10/6	14	9	9	0	24	9	5	5	7	10	0	0	0	0	10	10
10/7	0	5	5	0	24	16	23	9	24	15	24	0	0	0	24	24
10/8	0	24	24	0	24	0	24	24	24	24	24	0	0	0	24	24
10/9	0	24	24	0	24	0	24	24	24	24	0	0	0	0	24	24
10/10	4	12	12	0	24	0	20	20	20	20	0	0	0	0	20	20
10/11	1	23	23	0	24	23	4	22	22	23	0	0	0	0	23	23
10/12	6	17	17	0	24	6	14	17	16	17	0	0	0	0	17	17
10/13	0	24	24	0	24	24	23	23	23	24	0	0	0	0	24	24
10/14	0	24	24	0	24	24	24	23	16	24	0	0	0	0	24	24
10/15	1	23	23	0	24	23	23	23	23	23	0	0	0	0	23	23
10/16	0	24	24	24	0	24	24	24	24	24	0	0	0	1	24	24
10/17	0	24	24	24	0	24	24	24	24	24	0	0	8	13	24	24
10/18	17	0	0	6	0	6	6	1	1	0	1	1	1	24	24	24
10/19	0	0	0	24	0	5	24	0	0	19	0	0	0	0	6	6
10/20	0	0	0	24	24	24	24	0	0	0	0	0	0	0	24	24
10/21	24	0	0	0	24	0	0	0	0	0	0	0	0	0	24	24
10/22	24	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0
10/23	0	24	24	24	0	0	24	24	24	24	0	0	0	0	24	24
10/24	0	24	24	24	24	0	24	24	24	24	0	0	0	0	24	24
10/25	0	24	24	24	24	0	24	24	24	24	0	0	0	0	24	24
10/26	0	24	24	24	24	0	24	24	24	24	0	0	0	0	24	24
10/27	0	24	24	24	24	0	24	24	24	24	0	0	0	0	24	24
10/28	0	24	24	24	24	0	24	24	24	24	0	0	0	0	24	24
10/29	0	24	24	24	0	0	24	24	24	24	0	0	0	0	24	24
10/30	0	24	24	24	0	0	24	24	24	24	0	0	0	0	24	24
10/31	0	24	24	24	24	0	24	24	24	24	0	0	0	0	24	24

TABLE II, DOWNTIME HOURS FOR C-B SHALE OIL PROJECT

TRAILER 023

DIGITIZING

DATE	SYSTEM	WS	WD	RH	TEMP	WS	WD	RH	TEMP	WS	WD	RH	TEMP	DT1	DT2
10/ 1	4	20	0	0	0	20	0	0	20	20	0	0	0	0	0
10/ 2	3	21	0	0	0	21	0	0	14	21	0	0	0	0	0
10/ 3	17	7	0	0	0	7	0	0	0	7	0	0	0	0	0
10/ 4	13	11	0	1	0	11	0	1	1	11	0	1	1	0	1
10/ 5	0	24	0	0	0	24	0	0	0	24	0	0	0	0	0
10/ 6	14	10	0	0	0	10	0	0	0	10	0	0	0	0	0
10/ 7	1	23	0	0	0	23	0	0	0	23	0	0	0	0	0
10/ 8	1	23	0	0	0	23	0	0	0	23	0	0	1	0	0
10/ 9	0	24	0	1	1	24	0	1	1	24	0	0	0	0	0
10/10	4	20	0	0	0	20	0	0	1	20	0	0	0	0	0
10/11	1	23	0	0	0	23	0	0	0	23	0	0	1	0	0
10/12	6	18	0	0	0	18	0	0	0	18	0	0	0	0	0
10/13	0	24	0	0	0	24	0	0	0	24	0	0	0	0	0
10/14	0	24	0	0	2	24	0	0	1	24	0	1	1	0	1
10/15	1	23	0	0	3	23	0	1	2	23	0	1	3	0	0
10/16	0	12	5	0	10	0	0	0	8	20	2	1	9	0	0
10/17	1	0	0	0	23	0	0	0	23	17	0	0	23	0	0
10/18	1	0	0	0	17	0	0	0	17	17	0	0	17	0	0
10/19	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0
10/20	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0
10/21	1	0	0	0	0	0	0	0	0	24	0	0	0	0	0
10/22	1	0	0	0	0	0	0	0	0	23	0	0	0	0	0
10/23	0	0	0	0	2	1	1	0	3	23	0	0	1	0	18
10/24	12	0	0	1	1	0	0	1	1	13	2	2	2	0	23
10/25	15	0	0	0	0	0	0	0	0	0	0	0	0	0	24
10/26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
10/27	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CALIBRATION TIME		0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE II,
DOWNTIME HOURS FOR ATLANTIC RICHFIELD MONITORING PROJECT

TRAILER 024

DATE	COMPUTER	SO2	PART	H2S	WS	WD	RH	TEMP
10/ 1	24.	0.	24.	0.	0.	0.	0.	0.
10/ 2	24.	0.	24.	0.	0.	0.	0.	0.
10/ 3	24.	0.	24.	0.	0.	0.	0.	0.
10/ 4	24.	0.	24.	0.	0.	0.	0.	0.
10/ 5	24.	0.	24.	0.	0.	0.	0.	0.
10/ 6	24.	0.	24.	0.	0.	0.	0.	0.
10/ 7	24.	0.	24.	0.	0.	0.	0.	0.
10/ 8	24.	0.	24.	0.	0.	0.	0.	0.
10/ 9	24.	0.	24.	0.	0.	0.	0.	0.
10/10	24.	0.	24.	0.	0.	0.	0.	0.
10/11	24.	0.	24.	0.	0.	0.	0.	0.
10/12	24.	0.	24.	0.	0.	0.	0.	0.
10/13	24.	0.	24.	0.	0.	0.	0.	0.
10/14	24.	0.	24.	0.	0.	0.	0.	0.
10/15	24.	0.	24.	0.	0.	0.	0.	0.
10/16	24.	0.	24.	0.	0.	0.	0.	0.
10/17	18.	6.	24.	6.	6.	6.	0.	6.
10/18	0.	24.	24.	24.	24.	24.	0.	24.
10/19	0.	24.	24.	24.	24.	24.	0.	24.
10/20	0.	24.	24.	24.	24.	24.	0.	24.
10/21	4.	19.	24.	0.	19.	19.	0.	19.
10/22	17.	0.	24.	0.	7.	7.	0.	7.
10/23	0.	0.	24.	0.	24.	24.	0.	24.
10/24	8.	0.	24.	0.	16.	16.	0.	16.
10/25	24.	0.	24.	0.	0.	0.	0.	0.
10/26	24.	0.	24.	0.	0.	0.	0.	0.
10/27	24.	0.	24.	0.	0.	0.	0.	0.
10/28	24.	0.	24.	0.	0.	0.	0.	0.
10/29	14.	10.	24.	0.	10.	10.	0.	10.
10/30	0.	8.	24.	0.	24.	24.	0.	24.
10/31	0.	15.	0.	0.	24.	24.	0.	24.
CALIBRATION TIME		0.		1.	0.	0.	0.	0.

V. METEOROLOGICAL SUMMARY

A. Summary of the Major Features of the Upper
Flow Over North America

North America during October alternated between periods of zonal and meridional flow, with two sequences of split upper level flow. The upper flow was basically zonal (or west-east) over the United States on October 1, 4, 7, 12, 13, 22, 23, and 24. The flow was generally meridional (north-south) on October 2-3, 5-6, 9, 14-21, and 25-26. Split upper level flow prevailed on October 8, 10-11, and 27-31. The net results of these circulation patterns for the month of October were: much below normal temperatures and below normal precipitation over the north-eastern United States; below normal temperatures and much below normal precipitation over the Atlantic seaboard states; near normal temperatures and precipitation over the Central United States; below normal temperatures and slightly below normal precipitation in the South; much below normal temperatures and below normal precipitation in the north central United States; below normal temperatures and above normal precipitation in the South-western United States; slightly above normal temperatures and near normal precipitation in the Rocky Mountain regions; and generally above normal temperatures and below normal precipitation in the West.

October began with a mean long wave ridge axis extending from western Canada to northern California. A rather deep long wave trough was positioned through the eastern United States. Precipitation was confined to the far northeastern portion of the United States. A stationary cold front extended from Montana through Wyoming to southern Nebraska. By October 2nd, the long wave pattern had amplified so that a well defined long wave trough

extended from the Great Lakes to Florida. A strong upper ridge extended from Utah to north central Canada and a deepening upper trough was approaching the Pacific coast. A weak upper low was off the California coast. On the surface, a large, cold high pressure system was centered over Illinois. A warm front extended southward along the Rocky Mountains from Canada, while a strong maritime polar cold front came inland along the Washington coast. Precipitation was confined to California, Washington, and the northeastern United States.

On October 3rd, all of the major features of the circulation over North America moved eastward. The long wave trough along the Atlantic seaboard moved eastward slightly and amplified. The upper ridge also moved eastward to a position from Kansas to Minnesota and then northward into Canada. The upper trough in western North America also moved eastward and flattened somewhat. On the surface, the large surface high was still centered near the Great Lakes region, while a cold front advanced across the Great Basin. Precipitation was widespread across the Intermountain Region.

By October 4th, the cold front had pushed completely through Colorado into the Midwest. The large surface high moved southeastward to a position along the Atlantic seaboard. At upper levels, strong short waves were located off the coast of the eastern United States, along the Rocky Mountains, and along the west coast. Precipitation, mostly light, was scattered throughout the western two-thirds of the United States. On October 5th, the general positioning of circulation systems remained about the same. The long wave in the western United States amplified slightly. Precipitation was moderate from the Great Lakes to Montana and south from there to Kansas.

On October 6th, the northern half of the long wave which had been over the western United States was reinforced and moved

eastward, thus causing the southern half of this wave to be sheared off, forming a cutoff low aloft over California. The cold front which had been across the Midwest was reinforced by the deepening of the northern half of the short wave and moved southward as a result. Cloudiness and precipitation were widespread in a band from Arizona and New Mexico to Minnesota and the Great Lakes on the 6th, but decreased throughout western Colorado.

By October 7th, the western two-thirds of the nation was under the influence of a large dome of high pressure. The short wave that had been over the Midwest on the 6th moved eastward rapidly, to a position over the Great Lakes. The cold front associated with this short wave extended southwestward from Maine through Tennessee to central Texas. The low aloft over California persisted, causing precipitation over southern California and Nevada. Precipitation also extended along the front from Texas to New York. Skies were clear to partly cloudy over western Colorado. The upper flow pattern was split in the western United States on October 8th, as the upper low persisted. The cold front and short wave in the eastern United States continued to push eastward to a position off the coast. Most of the nation was under the influence of a large, weak high pressure system. Precipitation was confined to California and Nevada.

By October 9th, a short wave approaching the western coast of the United States caused the upper low to be ejected northeastward to a position over Nevada. A weak cold front extended from the Great Lakes to Nebraska but no other significant weather systems affected the United States. Temperatures were cool in the Northeast but seasonable elsewhere. A weak surface high pressure area affected most of the United States, resulting in many areas of light winds and stagnation. Precipitation in the United States was confined to the Great Basin area. October 10th

saw a split upper level flow regime return to the western United States. A short wave trough was located from Idaho to southern California. Showers and a few thundershowers were scattered throughout the Intermountain Region and the western slopes of the Rockies. A few showers fell in the Tract C-b area.

The split flow regime continued in the western United States on October 11th. The short wave from Idaho to California stayed nearly stationary. A cold front extended southwestward from a low pressure system on the Minnesota-Canada border through Nebraska to northern New Mexico. A secondary cold front extended westward to Montana, also from this low. Precipitation was widespread throughout the western half of the nation on the 11th, with showers and thundershowers again dotting western Colorado. By October 12th, the two cold fronts through the northern Plains States had organized into one strong frontal system which extended from the Great Lakes southwestward to the Texas Panhandle. The short wave trough which had been stationary over the western United States for the two previous days finally formed a weak low pressure circulation aloft over western Arizona. Precipitation covered a large portion of the United States extending from Arizona northeastward in a broad band to the Great Lakes region. A large cold high pressure system dominated the weather in the western half of the United States behind the cold front. Considerable cloudiness and a few showers persisted in western portions of Colorado.

By October 13th, another in a series of upper level short waves moving rapidly into the northwestern United States from British Columbia caused the upper low center over the southwestern United States to move slowly eastward. This approaching short wave had associated with it a moderate polar maritime cold front, which was located across central North Dakota and Montana on the morning

of the 13th. Precipitation was widespread across the middle of the United States on the 13th, extending from New Mexico to the Great Lakes in a very broad, nearly solid band. Skies cleared over western Colorado on the 13th as the upper low was forced eastward.

The short wave amplified rapidly on the 14th, causing the cold front to move southward rapidly. The front passed through western Colorado during the morning of the 14th, causing cooler temperatures and a continuance of clear skies. Precipitation once again occurred in a broad band across the central part of the United States because of the strong short wave and cold front. The short wave and cold front continued to move eastward rapidly on October 15th, thus forcing the precipitation area eastward with it. A large upper ridge and surface high covered the western half of the United States on the 15th, thus causing a continuance of fair, dry conditions in western Colorado on this day.

October 16th and 17th were very similar with regard to the upper flow patterns which prevailed over North America on these two days. A large surface high pressure cell dominated most of the United States during the period. Precipitation was confined to the eastern fourth of the country. A large upper ridge prevailed over California, Nevada, Utah, Idaho, Wyoming, and Colorado on these two days, while a large amplitude upper trough extended from the Great Lakes region to the Gulf of Mexico. Fair and mild weather prevailed over western Colorado on these days.

The same basic meridional flow pattern persisted over the United States on October 18th and 19th. A strong upper ridge dominated the flow in the western United States on both days, with a deep upper trough along the Atlantic seaboard. The systems progressed eastward very slowly, so that another long wave trough

began to approach the Pacific northwest by October 19th. Precipitation was minimal across the United States on both the 18th and 19th. A weak cold front progressed southward through the eastern half of the nation on the 18th and 19th, but did not affect Colorado at all. Meteorological conditions remained fair and unseasonably warm throughout western Colorado on both of these days.

The upper flow began to change on October 20th. The upper ridge and trough progressed eastward slowly, but a strong short wave began to dig southward along the west coast of the United States. A cold front associated with the short wave extended southward from eastern Washington into northwestern Nevada and northern California. Precipitation was confined to the northwestern and northeastern portions of the United States. Fair and warm conditions continued in western Colorado.

The short wave in the Northwest continued its easterly movement on October 21st, forming a closed upper low circulation in the process. The polar maritime cold front continued its eastward movement, passing through western Colorado during the afternoon of the 21st. Because of the upper low and its associated moisture and positive vorticity advection, cloudiness and scattered rainfall returned to western Colorado on this day. Actually, precipitation was scattered throughout the entire length of the Rockies. Precipitation and considerable cloudiness continued in western Colorado on October 22nd as the upper low strengthened slightly and remained stationary over northern Nevada and northern Utah. The upper flow became fairly zonal on this day, with the jet stream located along the United States-Canada border. The polar maritime cold front moved eastward through the northern Plains States but did not advance southward because of the zonal nature of the upper flow, the northern position of the jet stream,

and a blocking high pressure cell in the southeastern United States. Precipitation was widespread throughout the southwestern United States on this day.

The upper level flow over northern Nevada strengthened further by the morning of October 23rd, causing the broad area of precipitation to persist over the Plateau region and southwestern United States. Temperatures were cooler and cloudiness and precipitation were widespread throughout western Colorado on this day. The zonal character of the upper level flow and the northward retreat of the polar front jet stream into Canada caused the maritime polar cold front through the central part of the United States to become stationary. Precipitation was scattered along this front from Texas to New York. Rains continued in western Colorado during the morning of the 24th but began to diminish in areal coverage later in the day as the upper low over northern Nevada began to fill gradually. A short wave moving south from Canada into the northern Great Plains brought with it a weak cold front which extended into northern Wyoming during the morning. Precipitation was heavy in Texas and Oklahoma on this day. Clearing took place in western Colorado during the night of the 24th as the cold front passed through the region and a high pressure ridge built southward into the area.

The upper flow once again had meridional characteristics by October 25th, although the flow was beginning to show splitting tendencies once again in the western United States. An upper ridge extended northward from Colorado through Montana and into Alberta, Canada. A long wave trough extended southeastward from Hudson's Bay into New England and a short wave and upper closed low came onshore in the Pacific northwest. Precipitation occurred in Washington and Oregon and through the center of the nation, along a cold front which extended from Texas to the Great Lakes. Mild temperatures and clear skies prevailed in western Colorado.

Cloudiness returned to western Colorado as the short wave moved eastward from the Pacific coast on the 26th. Precipitation was restricted to the Pacific Northwest, the Southwest, and the Midwest as an upper ridge which extended from Florida to Alberta, Canada brought fair weather to most of the nation. The upper flow became split in the southwestern United States on the 27th, as a cold pool of air at upper levels became cutoff from the longwave circulation and formed a closed low over western Arizona. This low caused scattered light precipitation throughout the Southwest on this day. Cloudiness increased throughout western Colorado as the day progressed and light precipitation was experienced in the area during the evening hours.

An approaching short wave from the Pacific caused this upper low to be ejected northeastward by October 28th, resulting in continued cloudiness and scattered precipitation in western Colorado. This approaching short wave caused the generation of a strong surface low pressure area (cyclogenesis) in Oregon, from which trailed a polar maritime cold front into California. The split flow characteristics and broad upper level troughing which prevailed in the western two-thirds of the United States caused this entire region of the nation to be covered by cloudiness and precipitation.

The split flow in the polar front jet stream continued on October 29th, with a strong upper low forming over Nevada. A strong surface low was centered over western Utah during the morning of the 29th, with a moderately strong maritime polar cold front trailing southward. Cloudiness and precipitation continued in western Colorado, as the storm produced the first widespread snow of the season in the Intermountain Region. These cloudy and snowy conditions persisted in western Colorado on October 30th, as the upper low intensified and moved northeastward to a position

over central Utah. The surface low had meanwhile moved to eastern Colorado and weakened somewhat. Cold frontal passage occurred late on the 29th in western Colorado. By the morning of the 30th, it was located on a line from eastern Colorado southward to western Texas. Much of the nation received precipitation on this day due to the amplitude of the upper level troughing over the western United States.

Cloudiness and snows continued in western Colorado on October 31st as the intensifying upper low was pushed northeastward by an approaching short wave just off the northwestern coast of the United States. On the morning of the 31st, this upper low was located over central Wyoming. The split in the upper flow over the western United States continued, however, with a broad upper trough continuing to affect the western two-thirds of the United States. A surface low was located in Wyoming by the morning of the 31st, while a maritime polar cold front extended from Idaho into central California. Precipitation was widespread throughout the western and central portions of the nation.

B. Summary of Meteorological Conditions in the
Tract C-b Region

Precipitation totals and temperatures were near normal in the Tract C-b region of western Colorado during the month of October. The area experienced seven cold frontal passages during the month (October 3, 5, 10, 14, 21, 24, and 29). The strongest of these fronts was the one which passed through the region on October 29th. Precipitation was experienced in the area on twelve days of October (October 3, 5, 10, 11, 22, 23, 24, 27, 28, 29, 30, 31), but most of the daily totals were low. Snow was experienced in the area of the Tract C-b on October 29th, 30th, and 31st, but

snow amounts were rather light and melting occurred within a few days. Temperatures were below normal during the periods from October 3rd through the 7th and October 11th through the 15th. Temperatures were much below normal on October 29th, 30th, and 31st. Temperatures were above normal on the other days of the month, but were much above normal during the period from October 17th through the 22nd.

The area received 62 percent of the possible sunshine during the month. Sky coverage by cloudiness in the general area totalled 5.3 out of a possible 10 during the period from sunrise to sunset during October, and 4.9 out of a possible 10 for all possible observations during the month. The region experienced 10 clear days, 9 partly cloudy days, and 12 cloudy days during October. Thunderstorms were in the area on two October days (October 10th and 11th). Grand Junction, Colorado, about 75 miles to the southwest of the Tract C-b, received .72 inch of precipitation during October, which is .21 inch below normal for the month.

Poor dispersion or air stagnation conditions occurred occasionally in western Colorado during October. The period during which dispersion conditions were worst in the Tract C-b region was from October 17th through the 20th. During this interval, the region was influenced by a large persistent upper ridge over the western portions of the United States. This ridge brought clear skies to the Tract C-b area but also brought rather low mixing heights and subsidence aloft. The weak surface anticyclone associated with this upper ridge further compounded the problem by causing very light surface winds throughout the area. The net result was an extended (3 or 4 days) period of locally poor dispersion conditions.

The following is a summary of all air stagnation messages from the National Weather Service pertaining to western Colorado

during the month of October. The messages were received in Radian's facilities via the Service "C" Weather Teletype Circuit from the National Weather Service, a cable service to which Radian subscribes. These Air Stagnation Narratives are coded as "FKUS" messages.

- October 2nd: "In the western United States, the ridge moving through the Intermountain Regions of the Rockies is supporting the development of stagnation in portions of Colorado, Arizona, New Mexico, and West Texas...The stagnation will diminish as the ridge moves eastward."
- October 9th: "The stagnation through the Rockies this morning will diminish during the day as the trough moves into the Intermountain Region."
- October 16th: "Deteriorating local dispersion conditions over much of the United States west of the Rockies during the next 24 hours."
- October 17th: "Stagnation conditions are persisting over the western and southwestern United States as a result of little movement of the upper ridge over the Pacific Northwest and no movement of the flat surface high pressure area."

- October 19th: "Large-scale stagnation exists over the western United States from extreme West Texas through New Mexico to western Montana. An ASA (Air Stagnation Advisory) is in affect for much of this area."

C. Meteorological Discussion of Tract C-b and the Piceance Creek Valley

Meteorological conditions often varied considerably from the Piceance Creek Valley to the Tract C-b itself during the month of October. Anabatic and katabatic circulations were much better organized in the valley at Trailers 020, 021, and 022 than on the plateau at Trailers 023 and 024. Nighttime temperatures were much colder in the valley than on the plateau during nights when radiational cooling occurred and the downslope flow became organized. The diurnal range of temperatures was much greater at the Valley Trailers (020, 021, and 022) because of the mountain and valley circulations, with daily temperature ranges of 35° common at these trailers during October.

Trailer 021 generally had the largest diurnal range of temperature, mostly because of its location. At this location, the katabatic winds were fairly light at night because of the widening of the valley just upstream to the southeast. As a result, the mixing of the air was diminished during the night and cold air from higher elevations was allowed to collect in this relatively low area of the valley. Thus, radiational cooling was allowed to proceed uninhibited and temperatures fell rapidly during the night. Nighttime minimum temperatures were generally at least 5°F colder at this trailer than at the other two trailers in the valley and at least 10°F colder than minimum temperatures at Trailer 023 on the plateau, where the katabatic circulation cell was not developed so as to abet rapid cooling.

On the majority of the nights in October, Trailer 021 had the lowest minimum temperatures, followed by 020, 022, and 023. Temperatures were higher at Trailers 020 and 022 during the night because of increased wind speeds from the katabatic circulation, which mixed the air near the surface to the extent that the ground-based radiation inversions that formed near these trailers were not so intense as the inversion (coldest at the lowest level) at Trailer 021. During the afternoons, temperatures were much more uniform at all trailers because of increased vertical mixing from convection and the anabatic (upslope) flow. Daytime maximum temperatures during October were generally highest at Trailer 023, followed closely by Trailers 022, 021, and 020, in that order.

Relative humidities were generally rather uniform in the Piceance Creek Valley during the month, averaging about 62 percent. Humidities were a little lower on the plateau (because of slightly drier air and higher average temperatures), averaging about 53 percent at the 30-foot level of the meteorological tower.

Winds were generally much lower in the valley than on the plateau during the month. Winds generated by pressure gradient forces were normally decreased in strength substantially from the plateau to the valley. While the strongest winds during the month were generally the result of synoptic-scale developments on the plateau at the meteorological tower, the strongest winds in the valley were often the result of katabatic or anabatic circulations.

Winds at Trailers 020, 021, and 022 exhibited marked channelling effects because of the steep valley walls in the vicinity. Winds at Trailer 022 were normally either east-southeast or west-northwest while winds at Trailers 021 and 020 were normally either northwesterly or southeasterly because of the katabatic-anabatic circulation cycle. However, during transition periods

between upslope and downslope flow, or vice versa, the wind direction was rather variable at these locations. In addition, on occasions when the surface pressure gradient was weak and an anabatic or katabatic circulation cell was not developed, the winds were often calm or variable in direction.

At Trailer 023, winds did not exhibit as much of a terrain or micrometeorological dependence. Pressure gradient forces for the most part controlled the wind directions and speeds at the meteorological tower. Both the mode and mean of the distribution of wind directions at the tower were south-southwesterly or southwesterly, depending on the level of the tower under consideration, which is a reflection of the pressure gradient forces which existed in the Tract C-b region during October. Winds generally veered in direction (clockwise progression) and increased in speed with increasing height at the meteorological tower.

Average temperatures in the monitoring network for the month of October ranged from 39.4°F at Trailer 021 in the valley to 47.3°F at the 30-foot level of the meteorological tower at Trailer 023. The average temperature at Trailer 020 was 41.3°F, two degrees higher than at Trailer 021. At the meteorological tower, average temperatures were fairly uniform, ranging from 45.7°F at the 8-foot level to 47.3°F at the 30-foot level, with the 100-foot and 200-foot levels registering intermediate values. However, the average temperatures do not reflect the diurnal variation of vertical temperature structure which occurred at the tower. During cloudy, wet days, near-isothermal conditions prevailed at the four tower levels. However, on clear or partly cloudy days, the normal thermal pattern was: (1) inversion to 100 feet, with unstable lapse rates above that during the night, and (2) unstable lapse rates to 100 feet with an inversion above that during the day. The layer above 100 feet seems to have been

decoupled from the layer below that level much of the time. However, during extremely windy or cloudy conditions, there was more uniformity in the vertical temperature structure.

The highest daily average humidity reading in the valley during October was 93.9 percent at Trailer 022 on October 29th. October 5th also had average relative humidities above 80 percent. Likewise, on the plateau, October 5th and 29th had the highest average relative humidities. October 1st and 2nd were the driest days of the month, both in the valley and on the plateau, with daily average humidities in the twenties.

The highest daily average temperature in the region for October occurred on October 1st. The average temperature this day at the 30-foot level of the meteorological tower was 61.0°F. Meanwhile, in the valley, the average temperatures ranged from 46.0°F to 48.1°F. The much lower average temperatures in the valley were due to much lower temperatures from strong radiational cooling during the night. The lowest daily average temperatures in the network during October were recorded on October 30th, a snowy day, when temperatures ranged from 27.6°F to 29.9°F in the valley and from 29.8°F to 31.0°F at the four meteorological tower levels. The highest maximum temperature recorded in the valley during October was 73°F at Trailers 020 and 021 on October 2nd. The highest temperatures recorded at the meteorological tower during the month occurred on October 1st, 2nd, and 15th. The lowest temperature recorded in the valley during October was 14°F at Trailer 021 on October 15th. The lowest temperature recorded on the plateau was 24°F on October 30th.

Considering the valley stations, winds were strongest at Trailer 022 during the month, averaging 5 miles per hour. Winds at Trailer 021 averaged 3 miles per hour and winds at Trailer 020

averaged 2 miles per hour. The highest daily average winds occurred on October 3rd and 21st. On a diurnal basis, the strongest winds occurred from 1300 to 1500 hours at Trailer 020, from 1500 to 1800 hours at Trailer 021, and from 0100 hours to 0200 hours (katabatic winds) at Trailer 022.

At the meteorological tower, wind speeds averaged 2 miles per hour for the month at the 8-foot level, 7 miles per hour at the 30-foot level, 6 miles per hour at the 100-foot level, and 9 miles per hour at the 200-foot level. The windiest days of the month on the plateau were October 21st and 31st. On a diurnal basis, winds were strongest on the plateau during the period from 1300 to 1500 hours. Winds were lightest from 0800 to 0900 hours. The highest 5-minute average wind speed recorded in the valley during October was 23 miles per hour at Trailer 021 on October 3rd. The highest 5-minute average wind speed recorded at the meteorological tower site during October was 35 miles per hour, at the 100-foot level, on October 21st.

VI. DATA PRESENTATION AND SUMMARY

This section includes summaries for various recorded data at the monitoring sites. The data presentations indicate the variability of pollutant concentrations and meteorological parameters with location and time. In addition, the presentations indicate the functional dependence of pollutant concentration with wind direction. All data except suspended particulates (24-hour samples) are sampled once each second, but recorded as five-minute arithmetic averages of the one-second samples. This averaging technique tends to smooth instantaneous maximum values, and is especially evident when comparing wind gusts to local weather bureau data.

Inherent to any data acquisition system is random noise both from the recording instruments and quantization in the analog-to-digital conversion. The lower threshold for all analytical instruments is twice the maximum noise level generated by the instruments. This lower threshold is 5 ppb for all instruments, except for the ozone analyzer for which it is 0.5 ppb. Therefore, any values appearing in the data presentations that are less than 5 ppb indicate only a trace of pollutant in question and should not be construed to be absolute levels. In addition, when concentration levels drop below the lower threshold, the recorded quantity is simply random noise and averages tend toward zero. Thus, when concentrations are below the lower threshold of the analytical instruments they may appear as a zero entry in the data presentation which does not indicate absolute zero concentration.

All pollutant data (except for particulate data is taken at the monitoring site in integer parts per billion (ppb) but is presented here in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$))

assuming standard temperature and pressure of 25°C and 760 mmHg (1013.2 millibars), respectively. The scale factors required to convert $\mu\text{g}/\text{m}^3$ at standard conditions back to ppb for the various pollutants are given in the following table.

POLLUTANT	TO CONVERT $\mu\text{g}/\text{m}^3$ AT 25°C AND 760 mmHg TO ppb MULTIPLY BY
NO _x	.534
NO	.534
NO ₂	.534
SO ₂	.384
H ₂ S.	.723
THC	1.536
CH ₄	1.536
CO	.877
O ₃	.512

The units of the meteorological parameters are given in the table. It should be noted here that inside temperature is monitored and recorded as a functional part of the system but is not presented in this report.

Table III displays the monthly statistics for each monitoring station for the month. To insure statistical significance, and to reduce the possibility of introducing a bias in the presentation, averages are computed only when at least 50 percent of the samples are present, except for relative humidity and temperature, in which case 75 percent of the samples are required. If less than the required samples are present for a particular parameter, that entry will be blank. The number of

samples present for a particular channel is defined as the total possible number of five-minute samples for the averaging time less the computer downtime less the channel downtime less the channel calibration time. The averages in Table III are arithmetic averages with the following exceptions:

- Wind speed and wind direction are computed using a vector averaging technique where the wind speed is treated as the vector magnitude.
- Particulate averages are computed as the geometric mean.

Table IV displays the daily averages. Again, 50 percent of the five-minute samples are required in order to compute an average except for the cases of relative humidity and temperature which require 75 percent. A blank entry indicates an insufficient number of five-minute samples present for that day. Wind speed, wind direction, and particulate averages are computed the same way as described in Table III.

Table V presents the maximum daily five-minute average retained in the data base as well as the time of occurrence. A five-minute maximum average is printed if any samples are present for that day. Therefore, the maximum five-minute average for a channel which experienced considerable downtime or calibration time during the day in question may be misrepresentative of the maximum expected for that channel on that day.

Table VI indicates the five largest averages for various averaging times. The table shows the period of time covered by the average. Maxima are chosen so that time segments

are independent. The maximum averages reported are found using a 'sliding average' technique with the exception of the 24-hour particulate average which is computed from midnight to midnight and the 3-hour hydrocarbon average which is computed from 6:00 to 9:00 a.m. only. For averaging times less than or equal to three hours, the sliding average is stepped one five-minute sample at a time. For longer averaging times the step size is twelve samples or one hour. For averaging times less than or equal to one hour 100 percent of the five-minute samples must be present to compute an average. Averaging times greater than one hour require 90 percent. Whether or not a sliding average is computed is solely determined by the number of samples present in that averaging time and is independent of daily and monthly averaging criteria.

To demonstrate the functional dependence of recorded parameters upon wind direction, Table VII shows pollutant concentration displayed in a bi-variate distribution with wind direction. The tables display the total number of five-minute samples occurring in each concentration and wind speed class. The mean concentration for all samples occurring in each wind class are also shown. This distribution demonstrates the dependence of high pollutant concentrations upon wind direction. Appendix A contains stability-wind rose diagrams.

The wind speed classifications used in Appendix A are based on the Beaufort wind scale classification system. This is a system of estimating and reporting wind speeds, invented in the early nineteenth century by Admiral Beaufort of the British Navy. It was originally based on the effects of various wind speeds on the amount of canvas that a full-rigged frigate of the period could carry, but has since been modified and modernized. In its present form for international meteorological use it equates: (a) Beaufort force (or Beaufort number); (b) wind speed;

(c) descriptive term; and (d) visible effects upon land objects or the sea surface. One land adaptation is the NRM wind scale.

The six basic wind speed classifications used in the report are: 1-3 knots, 4-6 knots, 7-10 knots, 11-16 knots, 17-21 knots, and winds of greater than 21 knots. The following table is a complete description of the Beaufort Wind Scale, taken from Physical Climatology, by Helmut Landsberg, 1969.

BEAUFORT WIND SCALE FOR OBSERVATIONS AT LAND STATIONS

Force	Explanatory Title	Specification for Use	Corresponding Limits of Wind Speed at 10 meters ab. grd.				
			Mi/hr.	Knots	Km/hr.	M/sec.	Ft/sec.
0	Calm.....	Smoke rises vertically.....	<1	<1	<1	0.3	1
1	Light air.....	Direction of wind shown by smoke drift, but not by wind vanes.....	1-3	1-3	1-5	0.3-1.5	1-5
2	Light breeze.....	Wind felt on face; leaves rustle; ordinary vane moved by wind.....	4-7	4-6	6-11	1.6-3.3	6-11
3	Gentle breeze.....	Leaves and small twigs in constant motion; wind extends light flag.....	8-12	7-10	12-19	3.4-5.4	12-18
4	Moderate breeze...	Raises dust and loose paper; small branches are moved.....	13-18	11-16	20-28	5.5-7.9	19-26
5	Fresh breeze.....	Small trees in leaf begin to sway; wavelets formed on inland waters.....	19-24	17-21	29-38	8.0-10.7	27-35
6	Strong breeze.....	Large branches in motion; whistling heard in telegraph wires; umbrellas used with difficulty.....	25-31	22-27	39-49	10.8-13.8	36-45
7	High wind.....	Whole trees in motion; inconvenience felt when walking against wind.....	32-38	28-33	50-61	13.9-17.1	45-56
8	Fresh gale.....	Breaks twigs off trees; generally impedes progress.....	39-46	34-40	62-74	17.2-20.7	57-68
9	Strong gale.....	Slight structural damage occurs (chimney pots and slates removed).....	47-54	41-47	75-88	20.8-24.4	69-80
10	Whole gale.....	Seldom experienced inland; trees uprooted; considerable structural damage occurs..	55-63	48-55	89-102	24.5-28.4	81-93
11	Storm.....	Very rarely experienced; accompanied by widespread damage.....	64-72	56-63	103-117	28.5-32.6	94-106
12	Hurricane.....	.....	73-82	64-71	118-133	32.7-36.9	107-121
13	.....	.....	83-92	72-80	134-149	37.0-41.4	122-136
14	.....	.....	93-102	81-89	150-166	41.5-46.1	137-151
15	.....	.....	104-114	90-99	167-183	46.2-50.9	152-166
16	.....	.....	115-125	100-108	184-201	51.0-56.0	167-183
17	.....	.....	126-136	109-118	202-220	56.1-61.2	184-201

Source: Table 36 (p. 119) in R. J. List (1951); Smithsonian Meteorological Tables; Smithsonian Miscell. Coll. Vol. 114.

Table VIII demonstrates the diurnal variation of various recorded parameters. Hourly averages are determined by arithmetically averaging five-minute samples, except for wind direction averages, which are computed vectorially assuming unit vector magnitudes. Totals in the diurnal wind direction tables are vector averages of the columns and rows. For all parameters, a blank entry in the diurnal variation table indicates that less than half (i.e., less than 6) of the five-minute samples for that hour are present.

Times given in the data presentation are Mountain Daylight Saving Time (MDT) until towards the end of the month when the computer clocks were manually reset to Mountain Standard Time (MST). When the computer clocks were set back one hour, one hour's worth of data was overwritten.

To facilitate comparison of recorded concentrations to ambient air quality standards, the following regulations are presented.

FEDERAL AND COLORADO STANDARDS

	<u>Primary</u>	<u>Secondary</u>	<u>Non-Designated Area</u>	<u>1973</u>	<u>Designated Area</u> <u>1976</u>	<u>1980</u>
<u>Particulate</u>						
Annual G. M.	75 $\mu\text{g}/\text{m}^3$	69 $\mu\text{g}/\text{m}^3$	45 $\mu\text{g}/\text{m}^3$	70 $\mu\text{g}/\text{m}^3$	55 $\mu\text{g}/\text{m}^3$	45 $\mu\text{g}/\text{m}^3$
24 Hr. Max.*	260	150	150	200	180	150
<u>Sulfur Oxides</u>						
Annual	80(.03ppm)		--	60(.02ppm)	25(.009ppm)	10(.004ppm)
24 Hr. Max.*	365(.14ppm)		15(.005ppm)	300(.1ppm)	150(.05ppm)	55(.02ppm)
3 Hr. Max.*	--	1300(.5ppm)	--	--	--	--
1 Hr. Max.**	--	--	--	800(.28ppm)	300(.1ppm)	--
<u>Oxidant</u>						
1 Hr. Max.*	160(.08ppm)	160				
8 Hr. Max.*	--	--				
Annual	--	--				
<u>Hydrocarbons</u>						
3 Hr. Max.*	160(.24ppm)	160				
6-9 a.m.						
<u>Carbon Monoxide</u>						
Max. 8 Hrs.*	10000(9ppm)	10000				
Max. 1 Hr.*	40000(35ppm)	40000				
<u>Nitrogen Dioxide</u>						
Annual	100(.05ppm)	100				

Units are micrograms per cubic meter and ppm in parenthesis.
 *Not to be exceeded more than once per year.
 **Not to be exceeded more than once per month.

TABLE III. AVERAGES FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

NITROGEN OXIDES(NOx)			NITRIC OXIDE(NO)			NITROGEN DIOXIDE(NO2)		
SITE	020	023	020	023	020	023	020	023
	9.3		2.3		7.1			
TOTAL HYDROCARBONS			METHANE			NON-METHANE HYDROCARBONS		
SITE	020	023	020	023	020	023		
CARBON MONOXIDE			OZONE			BAROMETRIC PRESSURE		
SITE	020	023	020	023	020	023		
	1.2	2.1	42.7					
SULFUR DIOXIDE(SO2)			PARTICULATE					
SITE	020	021	022	023	020	021	022	023
				3.4				024
HYDROGEN SULFIDE			TOTAL PRECIPITATION (INCHES)					
SITE	020	021	022	023	020	021	022	023
	0.0	1.0		1.2				024
RELATIVE HUMIDITY			TEMPERATURE OUTSIDE					
SITE	020	021	022	023	020	021	022	023
	61.9	62.0			41.3	39.4		024
WIND SPEED			WIND DIRECTION					
SITE	020	021	022	023	020	021	022	023
	0.7	1.1			147.5	144.3		024

TABLE III. AVERAGES FOR OCT 1 THRU 31

(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

SITE	WIND SPEED		
	(8-FT) 023 1.4	(30-FT) 023	(100-FT) 023 2.8
			(200-FT) 023

SITE	WIND DIRECTION		
	(8-FT) 023 210.7	(30-FT) 023	(100-FT) 023 191.7
			(200-FT) 023

SITE	RELATIVE HUMIDITY		
	(8-FT) 023 53.4	(30-FT) 023 52.9	(100-FT) 023 50.2
			(200-FT) 023 58.7

SITE	TEMPERATURE OUTSIDE		
	(8-FT) 023 45.7	(30-FT) 023 47.3	(100-FT) 023 46.8
			(200-FT) 023 47.2

TABLE IV. DAILY AVERAGES FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

NITROGEN OXIDES(NOX)		NITRIC OXIDE(NO)		NITROGEN DIOXIDE(NO2)		
SITE	020	023	020	023	020	023
DATE						
10/ 1	10.9	43.7	0.5	37.3	10.4	6.4
10/ 2	9.6	16.1	0.6	15.8	9.0	0.3
10/ 3	11.6		9.4		2.2	
10/ 4	38.0		6.6		31.5	
10/ 5						
10/ 6	17.3		14.5		2.9	
10/ 7	4.5	4.7	2.0	2.5	2.5	2.2
10/ 8	5.3		0.9		4.4	
10/ 9	8.9		0.7		8.2	
10/10	15.9		0.5		15.4	
10/11	17.5		1.0		16.5	
10/12	18.2		2.1		16.1	
10/13	18.3		2.4		15.9	
10/14	17.4		1.9		15.5	
10/15	13.5		0.5		12.9	
10/16	7.1		0.0		7.1	
10/17	7.1		0.0		7.1	
10/18	3.5		0.0		3.5	
10/19	11.7	7.1	11.0	2.6	0.7	4.5
10/20	5.1	6.8	2.0	2.0	3.1	4.8
10/21	2.4	7.3	1.8	2.9	0.5	4.4
10/22		7.1		3.7		3.4
10/23	0.0	8.0	0.0	0.8	0.0	7.2
10/24	0.0	2.1	0.0	0.0	0.0	2.1
10/25	0.0		0.0		0.0	
10/26	0.0	0.0	0.0	0.0	0.0	0.0
10/27	0.0	0.0	0.0	0.0	0.0	0.0
10/28	2.7		0.3		2.4	
10/29	7.8	12.4	2.4	0.0	5.4	9.0
10/30	2.6	0.0	0.5	0.0	2.1	0.0
10/31	3.6	0.0	1.4	0.0	2.2	0.0

TABLE IV, DAILY AVERAGES FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

SULFUR DIOXIDE (SO2)

PARTICULATE

DATE	SITE	020	021	022	023	024	020	021	022	023	024
10/1		0.0	0.0	3.0	4.4						
10/2		0.0	0.0	0.8	8.6						
10/3		0.1	0.1	0.0							
10/4			0.0	0.0							
10/5			0.0		10.0						
10/6			0.4								
10/7		18.9	15.5		8.2						
10/8		5.8	0.0		0.0						
10/9		7.5	0.1		0.0						
10/10		0.0	0.0		0.0		5.0				
10/11		0.0	0.0		15.0			5.0			
10/12		0.0	0.0		4.2						
10/13		0.0	0.0		2.2						
10/14		0.0	0.0		0.9						
10/15		0.9	0.2		15.3		10.0	11.0		11.0	
10/16		0.0	0.0					15.0		16.0	
10/17		0.0	1.9				9.0	20.0		21.0	
10/18		1.2	0.0				13.0	20.0		36.0	
10/19		0.0	3.2				17.0	18.0			
10/20		0.0									
10/21		0.5	1.5		0.0						
10/22		0.0	0.1		0.0						
10/23		0.0	1.4		0.0	12.3	3.0	3.0		7.0	
10/24		0.0	0.0		0.0	9.3		5.0			
10/25		0.0	0.1				2.0				
10/26		0.0	0.0				14.0				
10/27		0.0	0.4		0.1						
10/28		0.1						13.0			
10/29		0.0	25.5		0.0		2.0	3.0		1.0	
10/30		0.0	0.2		0.0	0.2		4.0		3.0	
10/31		0.0	9.0		0.0			2.0	2.0		1.0

TABLE IV. DAILY AVERAGES FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	TOTAL HYDROCARBONS		METHANE		NON-METHANE HYDROCARBONS	
	SITE 020	023	020	023	020	023
10/ 1		18565.5		13873.3		4692.2
10/ 2		17103.7		13182.6		3921.1
10/ 3						
10/ 4						
10/ 5						
10/ 6						
10/ 7				5044.3		
10/ 8						
10/ 9						
10/10						
10/11		7249.6				
10/12						
10/13						
10/14						
10/15						
10/16	820.5					
10/17	828.1					
10/18	812.6			842.4		
10/19				797.3		
10/20						
10/21						
10/22	840.6			939.3		
10/23	812.0					
10/24	873.5		819.3	776.4	60.5	
10/25	896.4					
10/26		11502.8				10681.3
10/27		15821.1				15026.1
10/28						
10/29	873.8	10065.8	793.1	857.5	80.7	9208.3
10/30	854.6	8842.2		823.2		8018.9
10/31						
10/31	621.4	8912.8		650.1		8119.4

TABLE IV. DAILY AVERAGES FOR OCT 1 THRU 31

(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	CARBON MONOXIDE		OZONE		BAROMETRIC PRESSURE	
	020	023	020	023	020	023
10/ 1	1408.4	9494.1	83.2	82.1		
10/ 2	1435.7	6845.1	83.7	89.4		
10/ 3	1714.3		22.0			
10/ 4	1809.1		6.5			
10/ 5	1976.1		31.6			
10/ 6	1928.8		39.1			
10/ 7			33.6			
10/ 8			30.3			
10/ 9			42.1			
10/10			65.7			
10/11			57.6			
10/12			36.6			
10/13			48.8			
10/14			56.8			
10/15			68.3			
10/16	548.6		67.1			
10/17	551.9		64.2			
10/18	548.8		55.9			
10/19		1964.1	33.0			
10/20		1388.0	18.0	26.3		
10/21			14.1			
10/22		2075.0	10.1			
10/23			30.5			
10/24		1112.2	27.6			
10/25			29.7			
10/26	661.4		47.5			
10/27	742.6	2020.2	57.5	22.2		
10/28	753.7	2030.4	54.4			
10/29	748.5		59.3	14.2		
10/30	743.8	2464.0	22.0	17.4		
10/31	766.4	2662.2	36.5	29.4		

TABLE IV. DAILY AVERAGES FOR OCT 1 THRU 31

(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

HYDROGEN SULFIDE

TOTAL PRECIPITATION
(INCHES)

DATE	SITE	020	021	022	023	024	020	021	022	023	024
10/1		0.0	0.0	0.9	0.1						
10/2		0.0	0.0	0.0	0.5						
10/3			0.0	0.0							
10/4		0.0	0.0	0.0							
10/5		0.0	0.0								
10/6		0.0	0.0								
10/7		0.0	0.0								
10/8		0.0	0.0								
10/9		0.0	0.6		0.0						
10/10		0.0	1.3		0.0						
10/11		0.0	0.3								
10/12		0.0	0.5								
10/13		0.0	1.3								
10/14		0.0	1.2								
10/15		0.0	0.0								
10/16		0.0	0.0								
10/17		0.0	0.0								
10/18		0.2									
10/19		0.0	0.4		0.0						
10/20		0.0	1.4								
10/21		0.1	0.0		0.3	0.0					
10/22		0.0	1.3		0.0						
10/23		0.0	0.0	0.0	13.3	0.0					
10/24		0.0	0.0	0.3	0.0	0.0					
10/25		0.0	0.0	1.2							
10/26		0.0	0.0	1.3							
10/27		0.0	0.0	1.0							
10/28		0.0	0.0	2.1							
10/29		0.0	0.1	1.7	0.0						
10/30		0.0	0.0	1.0	0.0	0.0					
10/31		0.0	0.0	1.5	6.1	0.0					

TABLE IV, DAILY AVERAGES FOR OCT 1 THRU 31
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	RELATIVE HUMIDITY				TEMPERATURE OUTSIDE			
		020	021	022	024	020	021	022	024
10/1		28.7	27.6	27.1		48.0	46.0	48.1	
10/2		25.5	28.0	22.2		47.1	46.9	52.4	
10/3		41.4	47.9	45.7		47.8	44.9	50.3	
10/4		62.1	63.1	64.0		48.2	49.4	51.3	
10/5		88.9	83.6			35.2	36.5		
10/6		70.4	67.0			36.2	34.8		
10/7		54.5	51.9			42.0	39.5		
10/8		47.7	56.2			43.8	39.8		
10/9		49.0	51.4			45.9	41.3		
10/10		53.8	57.4			45.7	42.7		
10/11		85.0	81.3			36.9	36.5		
10/12		87.6	77.8			37.8	37.3		
10/13		69.3	63.9			38.5	37.3		
10/14		63.9				34.1			
10/15		51.8	51.9			37.7	34.7		
10/16		45.0	48.9			43.0	39.0		
10/17		46.1	51.0			45.4	42.5		
10/18		44.5			32.6	45.9			
10/19		39.0	44.1		26.2	46.7	43.2		
10/20		36.5	37.4		25.6	47.6	46.3		
10/21		53.4	55.2		37.0	46.0	44.3		
10/22		77.8	73.4			43.2	42.4		
10/23		80.2	77.1		80.5	42.9	41.8		
10/24		81.3	76.6	87.7		41.9	40.5	43.5	
10/25		85.3	76.9	88.7		35.9	34.8	38.1	
10/26		67.1	67.4	68.9		39.1	36.1	41.7	
10/27		67.4	67.8	70.7		40.0	39.0	42.3	
10/28		74.6		80.9		40.2		41.9	
10/29			83.7	93.9			34.4	35.6	
10/30		81.7	74.7	85.5	78.0	27.6	28.1	29.9	
10/31		74.7	72.1	80.6	79.0	32.5	33.6	34.4	

TABLE IV. DAILY AVERAGES FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	WIND SPEED				WIND DIRECTION			
		020	021	022	024	020	021	022	024
10/ 1		0.9	0.2	4.8		116.7	308.0	94.8	
10/ 2		2.1	1.8	5.0		145.4	164.6	118.9	
10/ 3		3.3	6.4	6.9		143.3	149.7	113.0	
10/ 4		0.8	1.7	1.5		256.4	168.3	273.8	
10/ 5		0.1	0.7			207.9	61.6		
10/ 6		0.9	0.3			276.9	337.4		
10/ 7		0.4	0.7			130.5	350.7		
10/ 8		1.2	0.8			105.1	357.4		
10/ 9		2.5	2.2			160.7	158.5		
10/10		0.6	0.4			114.3	120.0		
10/11		1.0	2.7			98.1	130.2		
10/12		0.1	0.2			280.7	180.8		
10/13		0.2	0.0			47.5	40.2		
10/14		0.7				323.8			
10/15		0.7				99.0			
10/16		0.8				86.3			
10/17		0.7				142.3			
10/18		0.6				117.2			
10/19		0.6	1.3			156.7	171.3		
10/20		1.7	3.3			161.5	164.6		
10/21		3.3	3.9			138.6	149.5		
10/22		0.0	0.7			136.8	0.2		
10/23		2.0	2.3	1.6		145.0	154.7	137.0	
10/24		0.7	2.0	1.2		332.4	331.0	69.6	
10/25		0.6	0.6	1.5		242.2	346.7	86.7	
10/26		0.5	0.5	3.9		133.8	33.6	117.1	
10/27		0.9	1.8	1.2		295.5	333.8	125.1	
10/28		1.4		3.7		170.1		115.8	
10/29		0.1	1.3	1.2		325.2	137.0	106.5	
10/30		0.9	3.7	1.9		184.7	131.7	120.7	
10/31		0.9	4.2	1.3		194.5	137.2	94.4	

TABLE IV. DAILY AVERAGES FOR OCT 1 THRU 31.
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	WIND SPEED			
		(8-FT) 023	(30-FT) 023	(100-FT) 023	(200-FT) 023
10/ 1		0.5		2.8	
10/ 2		1.9		6.6	
10/ 3					
10/ 4					
10/ 5		0.3		1.1	
10/ 6					
10/ 7				1.3	
10/ 8				1.0	
10/ 9		2.2		8.0	
10/10		0.4		1.6	
10/11		0.5		1.0	
10/12		0.0		0.8	
10/13		0.1		1.6	
10/14		0.8		2.8	
10/15		0.3		0.9	
10/16		0.6		2.1	
10/17		1.1	1.5	2.3	
10/18			2.6	3.2	
10/19		3.0	3.7	4.0	
10/20		4.4	6.1	8.3	
10/21		9.1	12.1	14.6	
10/22		1.6	2.0	2.1	
10/23			4.8	6.1	
10/24			1.4		1.1
10/25					
10/26			3.4	3.3	3.4
10/27			3.1	3.3	2.9
10/28					
10/29			3.6	4.7	5.3
10/30			9.9	9.7	10.5
10/31			12.6	15.2	16.9

TABLE IV. DAILY AVERAGES FOR OCT 1 THRU 31

(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;

TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	WIND DIRECTION			
		(8-FT) 023	(30-FT) 023	(100-FT) 023	(200-FT) 023
10/ 1		246.6		316.3	
10/ 2		204.4		180.7	
10/ 3					
10/ 4					
10/ 5		302.4		263.0	
10/ 6					
10/ 7				308.7	
10/ 8				336.9	
10/ 9				178.5	
10/10		202.0		202.8	
		225.2			
10/11		148.5		110.5	
10/12		245.5		227.7	
10/13		260.2		309.5	
10/14		312.8		311.7	
10/15		233.6		350.5	
10/16		229.9		359.5	
10/17		294.1	295.6	327.7	
10/18			298.8	312.3	
10/19			218.8	209.4	
10/20		233.0	196.6	185.3	
		214.8			
10/21		191.4	175.9	165.3	
10/22		221.2	214.2	189.6	
10/23			172.4	163.9	
10/24			126.0		190.5
10/25					
10/26			215.5	207.2	223.2
10/27			284.4	288.2	300.0
10/28					
10/29			167.0	146.4	162.2
10/30			200.9	180.3	201.3
10/31			208.1	197.8	211.9

TABLE IV, DAILY AVERAGES FOR OCT 1 THRU 31
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	RELATIVE HUMIDITY			
		(8-FT) 023	(30-FT) 023	(100-FT) 023	(200-FT) 023
10/ 1		20.8	21.7	20.6	27.1
10/ 2		21.7	22.2	20.8	27.5
10/ 3					
10/ 4					
10/ 5		86.3	89.9	90.3	95.5
10/ 6					
10/ 7		40.6	38.8	35.4	43.3
10/ 8		31.7	30.3	27.3	35.6
10/ 9		34.7	35.5	33.1	40.3
10/10		40.1	41.0	38.8	46.0
10/11		70.8	76.7	76.2	83.2
10/12					
10/13		60.0	59.6	56.0	64.7
10/14		48.5	48.0	46.4	53.5
10/15		33.0	30.7	27.3	36.6
10/16			30.7	27.7	36.1
10/17		30.1	30.6	29.7	37.0
10/18			30.5	29.6	37.1
10/19		25.3	27.0	26.1	33.9
10/20		25.6	28.3	27.1	34.6
10/21		46.9	49.0	48.9	56.7
10/22		77.9	76.0	72.5	78.5
10/23		79.7	78.7	75.4	84.4
10/24					
10/25					
10/26		62.0	58.6	51.0	66.9
10/27		63.4	62.0	56.3	70.4
10/28					
10/29		85.8	88.5	84.8	93.9
10/30		83.8	81.7	74.9	89.0
10/31		81.9	81.4	77.3	90.4

TABLE IV, DAILY AVERAGES FOR OCT 1 THRU 31
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	TEMPERATURE OUTSIDE			
		(8-FT)	(30-FT)	(100-FT)	(200-FT)
		023	023	023	023
10/ 1	58.5	61.0		59.6	
10/ 2	55.3	58.5		58.2	
10/ 3					
10/ 4					
10/ 5	42.0	43.9	43.6	43.1	
10/ 6					
10/ 7	45.1	46.2	46.6	46.5	
10/ 8	47.2	49.4	49.5	49.2	
10/ 9	49.4	51.0	51.4	51.2	
10/10	44.0	47.2	47.4	46.5	
10/11	37.3	38.5	38.3	38.3	
10/12		46.3	46.1	45.4	
10/13	51.7	53.8	53.9	53.8	
10/14	46.5	49.3	49.0	49.6	
10/15	47.9	50.1	49.8	48.0	
10/16		48.0	50.9	50.5	
10/17					
10/18					
10/19	55.9	57.9	58.2	57.4	
10/20	55.1	57.3	57.7	57.3	
10/21	50.4	51.6	50.8	50.5	
10/22	45.6	45.5	45.2	46.6	
10/23	44.3	44.1	44.9	44.3	
10/24		41.2	41.6	41.7	
10/25					
10/26	44.9	46.0	47.1	46.3	
10/27	44.0	44.8	45.1	44.9	
10/28					
10/29	35.3	35.0	35.7	35.7	
10/30	30.2	29.8	31.0	30.9	
10/31	33.2	32.3	32.7	32.6	

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

SITE DATE	NITROGEN OXIDES(NOX)			NITRIC OXIDE(NO)			NITROGEN DIOXIDE(NO2)		
	020	023	020	020	023	020	023		
10/ 1	24.3(19:40)	174.1(1:25)	7.5(13:55)	136.7(3:15)	22.5(19:40)	39.3(1:25)			
10/ 2	24.3(8:00)	26.2(17:25)	9.4(21:25)	26.2(17:25)	24.3(8:00)	16.9(6:00)			
10/ 3	39.3(21:25)	20.6(3:55)	39.3(21:25)	20.6(3:55)	20.6(22:25)	16.9(3:40)			
10/ 4	52.4(8:55)		41.2(14:25)		69.3(8:55)				
10/ 5	56.2(1:20)		30.0(22:45)		56.2(1:20)				
10/ 6	86.1(12:55)		74.9(12:55)		35.6(8:10)				
10/ 7	52.4(8:10)	76.8(4:05)	30.0(2:50)	73.0(3:25)	44.9(8:10)	76.8(4:05)			
10/ 8	35.6(20:25)		18.7(16:55)		33.7(20:25)				
10/ 9	31.8(8:50)		20.6(7:55)		31.8(8:50)				
10/10	28.1(8:30)	20.6(17:30)	22.5(5:55)	20.6(17:30)	26.2(8:40)	0.0(12:00)			
10/11	35.6(8:35)		13.1(8:35)		30.0(15:35)				
10/12	26.2(8:55)		11.2(8:35)		24.3(7:05)				
10/13	26.2(7:55)		11.2(10:25)		26.2(19:50)				
10/14	28.1(8:30)		15.0(8:25)		22.5(3:55)				
10/15	31.8(18:45)		5.6(9:55)		30.0(18:45)				
10/16	20.6(19:15)		0.0(0:00)		20.6(19:15)				
10/17	28.1(6:20)		0.0(0:00)		28.1(6:20)				
10/18	15.0(6:45)	13.1(22:00)	0.0(0:00)	7.5(18:45)	15.0(6:45)	9.4(20:40)			
10/19	22.5(8:00)	13.1(3:45)	22.5(8:00)	11.2(6:35)	11.2(7:55)	11.2(16:40)			
10/20	16.9(2:15)	13.1(8:50)	16.9(2:15)	9.4(8:35)	9.4(6:55)	13.1(13:20)			
10/21	15.0(5:30)	15.0(1:40)	15.0(5:30)	11.2(11:05)	7.5(1:15)	11.2(4:25)			
10/22		37.4(14:55)		37.4(14:55)		9.4(13:45)			
10/23	0.0(0:00)	73.0(8:55)	0.0(0:00)	59.9(12:55)	0.0(0:00)	73.0(8:55)			
10/24	0.0(0:00)	13.1(2:00)	0.0(0:00)	0.0(0:05)	0.0(0:00)	13.1(2:00)			
10/25	1.9(20:00)	30.0(14:20)	1.9(20:00)	30.0(14:20)	0.0(0:00)	1.9(17:30)			
10/26	1.9(0:30)	0.0(0:00)	1.9(0:30)	0.0(0:00)	0.0(0:00)	0.0(0:00)			
10/27	0.0(0:00)	0.0(0:00)	0.0(0:00)	0.0(0:00)	0.0(0:00)	0.0(0:00)			
10/28	13.1(20:10)	35.6(18:10)	5.6(22:25)	0.0(18:10)	13.1(20:10)	35.6(18:10)			
10/29	13.1(2:55)	168.5(15:35)	9.4(8:35)	3.7(16:25)	11.2(2:20)	18.7(0:55)			
10/30	22.5(9:20)	1.9(10:30)	9.4(11:00)	1.9(10:30)	20.6(9:15)	1.9(14:10)			
10/31	11.2(21:35)	7.5(14:05)	9.4(6:15)	3.7(6:40)	11.2(21:35)	3.7(14:05)			

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

SULFUR DIOXIDE(SO2)

SITE	020	021	022	023	024
10/1	0.0(0:00)	0.0(0:00)	41.7(13:35)	52.1(3:05)	
10/2	0.0(0:00)	10.4(18:35)	7.8(0:00)	109.4(22:10)	
10/3	7.8(0:35)	2.6(11:40)	0.0(0:00)	75.5(1:25)	
10/4		0.0(0:00)	0.0(0:00)	0.0(15:00)	
10/5		0.0(0:00)		18.2(17:35)	
10/6		72.9(13:15)		20.8(16:30)	
10/7	112.0(16:40)	270.9(13:15)		18.2(1:15)	
10/8	52.1(21:30)	0.0(0:00)		0.0(0:00)	
10/9	54.7(6:00)	10.4(0:15)		0.0(0:00)	
10/10	0.0(0:00)	0.0(0:00)		0.0(0:00)	
10/11	0.0(0:00)	0.0(0:00)		31.3(13:50)	
10/12	0.0(0:00)	0.0(0:00)		20.8(0:35)	
10/13	0.0(0:00)	0.0(0:00)		10.4(18:30)	
10/14	0.0(0:00)	0.0(0:00)		28.7(11:20)	
10/15	135.5(12:40)	5.2(4:55)		88.6(15:25)	
10/16	23.4(9:15)	5.2(17:50)			
10/17	0.0(0:00)	35.5(6:50)			
10/18	224.0(13:35)	0.0(23:05)			
10/19	0.0(0:00)	10.4(12:55)			
10/20	0.0(0:00)	33.9(22:35)			
10/21	86.0(12:55)	54.7(16:45)		0.0(0:00)	
10/22	0.0(0:00)	31.3(17:40)		0.0(0:05)	10.4(22:30)
10/23	0.0(0:00)	31.3(1:20)		2.6(4:15)	15.6(2:05)
10/24	0.0(0:00)	23.4(21:20)		0.0(0:05)	15.6(0:05)
10/25	0.0(0:00)	5.2(14:30)		0.0(14:20)	
10/26	0.0(0:00)	0.0(0:00)		0.0(0:00)	
10/27	0.0(0:00)	31.3(16:30)		5.2(21:05)	
10/28	28.7(14:00)	2.6(16:10)		52.1(18:10)	
10/29	0.0(0:00)	221.4(5:35)		0.0(0:00)	
10/30	0.0(0:00)	26.0(5:35)		0.0(0:00)	7.8(15:35)
10/31	0.0(0:00)	33.9(20:30)		0.0(0:00)	2.6(23:05)

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	TOTAL HYDROCARBONS			METHANE			NON-METHANE HYDROCARBONS		
		020	023	020	023	020	023	020	023	023
10/1			20188.1(0:05)		19703.6(20:50)		12112.9(14:15)			
10/2		1394.9(13:30)		642.8(2:25)	17159.9(17:30)		1066.1(13:30)			
10/3			20188.1(0:10)		15867.9(5:10)		12213.8(6:25)			
10/4		747.6(5:30)		683.8(21:00)	18108.8(12:30)		481.9(7:05)			
10/5		1343.5(4:00)		864.8(4:20)			1232.8(4:00)			
10/6		2003.2(7:15)		2903.2(7:15)	5208.5(19:00)		671.4(6:50)			
10/7		2527.6(9:15)		21338.9(2:35)	21338.9(0:05)		3432.0(22:05)			
10/8							16998.4(2:35)			
10/9										
10/10		766.5(5:55)								
10/11			21338.9(17:40)							
10/12			12859.8(2:55)							
10/13										
10/14										
10/15		2995.0(12:50)		2995.0(12:50)			483.2(18:20)			
10/16		987.9(0:45)								
10/17		2190.1(22:25)								
10/18		2968.3(9:00)		836.8(23:25)	847.9(22:00)		63.8(18:55)			
10/19		651.6(3:55)		823.8(4:00)	8394.4(12:50)		72.9(3:55)			
10/20		857.0(4:10)		809.5(22:25)	827.7(0:05)		60.6(3:55)			
10/21		1125.1(13:20)		963.8(13:55)	827.7(14:20)		354.9(13:10)			
10/22		1499.8(11:10)			13727.9(15:45)					
10/23		2392.6(5:55)		20186.1(0:45)	859.6(21:45)					
10/24		1653.9(21:10)			868.1(8:05)		222.7(23:45)			
10/25		2639.4(18:10)		1229.5(21:10)	5854.6(18:10)		1950.4(18:10)			19380.6(15:35)
10/26		963.8(21:20)		1014.6(21:40)	924.7(18:00)		634.9(1:00)			19413.2(7:20)
10/27		1040.0(22:20)		939.7(23:55)	905.2(3:30)		171.9(22:20)			19530.4(17:55)
10/28		1115.2(19:15)		978.1(0:00)	892.2(18:40)		218.2(19:10)			
10/29		942.4(4:25)		687.6(4:30)	931.3(7:20)		138.7(5:10)			19406.7(16:50)
10/30		936.4(22:45)		851.2(0:25)	866.1(16:30)		92.5(1:50)			19406.7(2:50)
10/31		943.0(1:05)		854.4(20:40)	931.3(14:40)		87.9(4:00)			19374.1(22:45)

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

HYDROGEN SULFIDE

SITE	020	021	022	023	024
10/1	0.0(0:00)	0.0(0:00)	31.8(4:05)	12.5(23:10)	
10/2	0.0(0:00)	0.0(0:00)	0.0(0:00)	22.1(11:40)	
10/3	2.6(0:45)	0.0(0:00)	0.0(0:00)	0.0(0:00)	
10/4	0.0(3:25)	0.0(0:00)	0.0(0:00)	0.0(0:05)	
10/5	0.0(0:00)	0.0(0:00)			
10/6	0.0(0:00)	0.0(0:00)			
10/7	0.0(0:00)	0.0(0:00)		34.6(19:30)	
10/8	0.0(0:00)	0.0(0:00)		0.0(0:00)	
10/9	0.0(0:00)	2.8(20:00)		0.0(0:00)	
10/10	0.0(0:00)	2.5(0:00)		0.0(0:00)	
10/11	0.0(0:00)	2.8(17:35)			
10/12	0.0(0:00)	2.8(18:35)		0.0(12:40)	
10/13	0.0(0:00)	2.8(0:00)			
10/14	0.0(0:00)	2.8(0:00)			
10/15	0.0(0:00)	1.4(0:00)			
10/16	0.0(0:00)	22.1(22:00)			
10/17	0.0(0:00)	0.0(0:00)			
10/18	29.1(13:35)	4.2(23:05)		0.0(5:00)	
10/19	0.0(0:00)	4.2(0:00)			
10/20	0.0(0:00)	49.8(19:05)			
10/21	40.1(12:55)	0.0(0:00)		58.1(17:25)	0.0(0:00)
10/22	0.0(0:00)	56.7(0:00)		0.0(0:05)	0.0(16:35)
10/23	0.0(0:00)	0.0(3:30)	0.0(11:00)	262.9(9:50)	0.0(0:00)
10/24	0.0(0:00)	0.0(0:00)	2.8(20:00)	0.0(0:05)	0.0(0:00)
10/25	0.0(0:00)	0.0(0:00)	2.8(10:15)	0.0(14:20)	
10/26	0.0(0:00)	0.0(0:00)	1.4(0:10)	0.0(0:00)	
10/27	0.0(0:00)	1.4(5:05)	4.2(13:25)	0.0(0:00)	
10/28	4.2(14:00)	155.0(20:25)	4.2(6:05)	0.0(18:10)	
10/29	0.0(0:00)	27.7(2:55)	4.2(3:30)	0.0(0:00)	0.0(0:00)
10/30	0.0(0:00)	0.0(0:00)	4.2(4:20)	0.0(0:00)	0.0(0:05)
10/31	0.0(0:00)	0.0(0:00)	4.2(9:40)	290.6(19:40)	0.0(0:05)

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	CARBON MONOXIDE		OZONE		BAROMETRIC PRESSURE	
		020	023	020	023	020	023
10/ 1		1734.6(9:50)	25520.2(20:45)	127.0(12:25)	123.1(4:50)		
10/ 2		1655.9(4:10)	18149.0(7:15)	117.2(13:25)	216.9(7:00)		
10/ 3		1075.2(3:55)	13178.9(6:35)	80.1(0:30)	214.9(6:25)		
10/ 4		2605.4(7:05)	21276.2(12:15)	21.5(14:45)	154.3(12:10)		
10/ 5		3649.2(4:00)		86.0(18:10)	13.7(0:05)		
10/ 6		2360.2(4:15)	24050.1(18:25)	234.4(13:00)			
10/ 7		5840.1(9:40)		82.1(11:20)	99.6(15:30)		
10/ 8				76.2(14:30)			
10/ 9				195.4(17:00)			
10/10		1879.3(5:55)		99.6(12:50)			
10/11				103.5(14:10)			
10/12				74.2(16:50)			
10/13				107.5(12:20)			
10/14			36521.3(6:05)	111.4(14:45)			
10/15		5155.8(18:55)		115.3(13:10)			
10/16		5592.3(16:45)		107.5(10:15)			
10/17		5561.8(17:45)		105.5(10:50)			
10/18		3588.8(12:55)	3015.5(21:45)	93.8(9:10)	19.5(19:00)		
10/19		523.1(0:35)	7471.6(18:15)	78.1(12:50)	19.5(3:20)		
10/20		2740.9(23:50)	10163.4(5:35)	48.8(10:55)	48.8(16:20)		
10/21		5633.6(13:15)	5416.8(19:25)	48.8(13:40)	142.6(17:35)		
10/22		4944.5(23:40)	25179.5(15:40)	48.8(14:25)			
10/23		1355.2(7:25)	37343.0(3:05)	66.4(18:35)			
10/24		4974.6(22:55)	3294.7(10:00)	64.5(12:30)	76.2(4:40)		
10/25		3452.3(13:15)	18209.4(18:10)	195.4(5:20)			
10/26		1102.0(18:50)	3243.5(10:05)	105.5(12:20)			
10/27		898.0(5:45)	4461.7(17:35)	97.7(11:25)	31.3(20:45)		
10/28		637.0(6:50)	4863.6(23:30)	97.7(14:20)	27.4(18:10)		
10/29		844.6(7:35)	5209.4(3:50)	103.5(15:25)	19.5(0:15)		
10/30		835.4(1:40)	3562.5(8:00)	64.5(0:30)	31.3(22:05)		
10/31		874.1(21:00)	7258.4(22:10)	91.8(13:15)	50.8(14:05)		

TABLE V, MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

SITE	TOTAL PRECIPITATION (INCHES)		
	020	021	022
10/ 1			023
10/ 2			024
10/ 3			
10/ 4			
10/ 5			
10/ 6			
10/ 7			
10/ 8			
10/ 9			
10/10			
10/11			
10/12			
10/13			
10/14			
10/15			
10/16			
10/17			
10/18			
10/19			
10/20			
10/21			
10/22			
10/23			
10/24			
10/25			
10/26			
10/27			
10/28			
10/29			
10/30			
10/31			

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31

(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;

TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

TEMPERATURE OUTSIDE

SITE	020	021	022	024
10/ 1	69.0(14:30)	71.0(14:50)	71.0(12:45)	
10/ 2	73.0(13:20)	73.0(14:50)	73.0(16:05)	
10/ 3	68.0(13:00)	70.0(13:05)	70.0(12:45)	
10/ 4	58.0(15:25)	59.0(13:50)	60.0(16:55)	
10/ 5	47.0(16:50)	49.0(16:05)		
10/ 6	56.0(16:10)	55.0(16:00)		
10/ 7	62.0(14:50)	67.0(15:10)		
10/ 8	67.0(16:40)	64.0(15:20)		
10/ 9	64.0(14:40)	63.0(17:20)		
10/10	63.0(15:15)	63.0(14:20)		
10/11	54.0(13:15)	53.0(13:25)		
10/12	48.0(16:00)	51.0(16:55)		
10/13	56.0(16:55)	58.0(16:15)		
10/14	53.0(15:55)	37.0(10:05)		
10/15	62.0(15:55)	62.0(15:30)		
10/16	65.0(13:10)	64.0(16:30)		
10/17	69.0(13:30)	69.0(14:40)		
10/18	71.0(15:40)	36.0(23:05)		
10/19	70.0(14:30)	71.0(14:45)		
10/20	68.0(13:15)	69.0(13:20)		
10/21	59.0(13:55)	62.0(15:10)		
10/22	57.0(14:30)	57.0(13:40)		
10/23	52.0(11:35)	52.0(11:55)	53.0(12:05)	
10/24	51.0(16:00)	52.0(13:05)	53.0(14:35)	
10/25	54.0(16:25)	53.0(14:40)	56.0(15:50)	
10/26	57.0(13:15)	58.0(12:45)	59.0(14:20)	
10/27	54.0(13:35)	54.0(15:50)	56.0(12:45)	
10/28	51.0(14:25)	52.0(14:05)	53.0(14:50)	
10/29	39.0(0:00)	41.0(11:00)	41.0(10:30)	
10/30	37.0(14:35)	37.0(11:40)	38.0(12:10)	
10/31	37.0(17:00)	39.0(16:00)	39.0(15:20)	

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

SITE	WIND SPEED			WIND DIRECTION		
	020	021	022	023	024	025
10/1	11.0	284.0(15:30)	11.0	315.0(12:50)	15.0	92.0(1:40)
10/2	9.0	141.0(8:50)	11.0	160.0(14:55)	13.0	116.0(4:15)
10/3	14.0	98.0(18:30)	23.0	164.0(14:40)	17.0	114.0(15:25)
10/4	11.0	289.0(11:20)	13.0	296.0(11:00)	13.0	275.0(11:55)
10/5	6.0	125.0(4:35)	9.0	112.0(4:15)		
10/6	9.0	264.0(13:45)	9.0	317.0(13:05)		
10/7	7.0	267.0(15:20)	11.0	324.0(16:45)		
10/8	6.0	144.0(8:50)	11.0	334.0(15:45)		
10/9	11.0	233.0(12:05)	13.0	169.0(15:00)		
10/10	10.0	293.0(17:25)	11.0	252.0(17:10)		
10/11	12.0	337.0(14:05)	16.0	136.0(10:05)		
10/12	3.0	275.0(10:10)	4.0	130.0(0:10)		
10/13	6.0	287.0(14:15)	7.0	330.0(17:05)		
10/14	9.0	296.0(14:35)				
10/15	5.0	130.0(1:40)				
10/16	7.0	275.0(10:50)				
10/17	7.0	277.0(13:50)				
10/18	9.0	272.0(13:25)	4.0	172.0(23:10)		
10/19	9.0	271.0(13:45)	9.0	275.0(13:35)		
10/20	10.0	133.0(8:25)	13.0	165.0(14:45)		
10/21	15.0	275.0(10:25)	18.0	153.0(11:35)		
10/22	8.0	128.0(3:30)	12.0	323.0(7:30)		
10/23	11.0	141.0(13:00)	13.0	161.0(12:40)	11.0	144.0(12:35)
10/24	7.0	8.0(14:55)	12.0	338.0(15:30)	8.0	292.0(12:30)
10/25	7.0	269.0(14:00)	8.0	324.0(14:50)	9.0	82.0(7:05)
10/26	7.0	180.0(11:35)	9.0	340.0(12:10)	11.0	116.0(5:25)
10/27	10.0	288.0(16:50)	12.0	339.0(15:00)	12.0	259.0(17:10)
10/28	8.0	151.0(13:55)	11.0	171.0(16:35)	13.0	113.0(14:15)
10/29	9.0	289.0(12:40)	9.0	227.0(17:55)	11.0	276.0(12:10)
10/30	9.0	178.0(13:20)	14.0	161.0(13:30)	10.0	118.0(0:30)
10/31	9.0	212.0(13:50)	10.0	125.0(7:45)	8.0	106.0(7:20)

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	WIND SPEED			WIND DIRECTION		
		(8-FT) 023	(30-FT) 023	(100-FT) 023	(200-FT) 023		
10/ 1	7.0	333.0(13:00)		17.0	342.0(12:50)		
10/ 2	12.0	225.0(17:30)		20.0	183.0(19:15)		
10/ 3	8.0	190.0(1:35)		16.0	176.0(1:35)		
10/ 4	11.0	205.0(16:20)		19.0	183.0(16:20)		
10/ 5	4.0	313.0(8:40)		8.0	279.0(8:50)		
10/ 6				7.0	336.0(15:50)		
10/ 7				10.0	309.0(13:45)		
10/ 8				12.0	287.0(17:00)		
10/ 9	11.0	189.0(11:05)		21.0	192.0(13:40)		
10/10	5.0	148.0(9:40)		20.0	320.0(16:15)		
10/11	7.0	133.0(13:35)		14.0	141.0(18:25)		
10/12	2.0	273.0(22:45)		5.0	195.0(19:40)		
10/13	3.0	327.0(12:30)		10.0	327.0(13:25)		
10/14	9.0	343.0(14:00)		14.0	331.0(14:00)		
10/15	6.0	242.0(19:55)		10.0	351.0(15:20)		
10/16	9.0	288.0(12:25)	7.0	13.0	304.0(12:55)	8.0	4.0(18:20)
10/17	7.0	312.0(14:45)	10.0	12.0	323.0(17:20)	12.0	340.0(17:30)
10/18	6.0	333.0(17:30)	12.0	13.0	312.0(14:40)		
10/19	13.0	228.0(12:50)	15.0	17.0	213.0(12:25)		
10/20	17.0	230.0(14:30)	21.0	24.0	205.0(13:50)		
10/21	25.0	201.0(10:50)	31.0	35.0	175.0(10:50)		
10/22	11.0	173.0(4:50)	15.0	19.0	160.0(4:40)		
10/23	5.0	137.0(0:20)	22.0	24.0	173.0(12:40)	22.0	199.0(13:20)
10/24			7.0	7.0	147.0(1:25)	8.0	219.0(5:10)
10/25			8.0	9.0	287.0(16:15)	7.0	313.0(15:40)
10/26			14.0	15.0	207.0(11:00)	14.0	199.0(10:45)
10/27			15.0	16.0	356.0(14:35)	15.0	3.0(14:35)
10/28			14.0	16.0	160.0(22:20)	17.0	176.0(22:25)
10/29			10.0	21.0	160.0(19:40)	23.0	184.0(19:40)
10/30			17.0	20.0	202.0(14:10)	21.0	205.0(20:40)
10/31			23.0	28.0	200.0(9:45)	31.0	219.0(9:45)

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	RELATIVE HUMIDITY			
		(8-FT) 023	(30-FT) 023	(100-FT) 023	(200-FT) 023
10/ 1		25,0(5:15)	25,0(7:20)	23,0(7:25)	29,0(5:40)
10/ 2		26,0(7:10)	26,0(4:35)	24,0(8:50)	30,0(4:15)
10/ 3		26,0(6:45)	26,0(6:55)	24,0(6:05)	31,0(5:55)
10/ 4		83,0(23:45)	81,0(23:00)	79,0(23:30)	87,0(22:50)
10/ 5		93,0(7:00)	99,0(10:55)	100,0(6:40)	100,0(3:00)
10/ 6		91,0(13:45)	94,0(13:40)	92,0(13:40)	100,0(13:40)
10/ 7		63,0(6:00)	57,0(7:25)	50,0(7:15)	59,0(3:55)
10/ 8		45,0(6:00)	39,0(7:00)	54,0(20:10)	49,0(20:10)
10/ 9		43,0(6:25)	43,0(7:50)	55,0(12:30)	45,0(5:55)
10/10		52,0(8:20)	56,0(8:55)	55,0(8:45)	60,0(16:15)
10/11		89,0(22:05)	96,0(17:15)	95,0(17:15)	100,0(17:15)
10/12		92,0(5:55)	99,0(5:40)	100,0(5:50)	100,0(0:00)
10/13		91,0(5:30)	89,0(1:10)	85,0(0:40)	97,0(0:20)
10/14		87,0(7:30)	78,0(7:40)	78,0(7:25)	87,0(7:25)
10/15		45,0(0:45)	40,0(3:00)	34,0(3:20)	57,0(12:40)
10/16		39,0(6:00)	36,0(8:55)	45,0(16:55)	98,0(16:00)
10/17		37,0(5:35)	38,0(5:15)	35,0(4:40)	41,0(5:15)
10/18		28,0(23:30)	40,0(6:30)	40,0(6:40)	45,0(6:00)
10/19		31,0(6:30)	32,0(7:30)	30,0(7:30)	39,0(7:05)
10/20		32,0(7:45)	36,0(8:10)	32,0(7:15)	41,0(5:20)
10/21		92,0(20:10)	94,0(20:05)	95,0(20:15)	100,0(19:15)
10/22		100,0(3:45)	100,0(0:45)	100,0(0:40)	100,0(0:15)
10/23		91,0(22:50)	92,0(20:30)	95,0(15:05)	99,0(20:30)
10/24		91,0(2:00)	92,0(5:25)	90,0(9:35)	99,0(0:05)
10/25		84,0(23:55)	82,0(23:45)	78,0(23:55)	97,0(23:35)
10/26		85,0(0:05)	83,0(0:05)	79,0(0:05)	95,0(0:00)
10/27		76,0(6:45)	74,0(8:55)	67,0(5:10)	86,0(7:40)
10/28		79,0(19:15)	79,0(19:20)	74,0(18:15)	90,0(19:10)
10/29		95,0(18:25)	100,0(16:50)	100,0(16:40)	100,0(14:45)
10/30		93,0(4:30)	90,0(0:00)	83,0(3:35)	99,0(4:50)
10/31		92,0(3:20)	87,0(22:20)	84,0(22:00)	96,0(22:05)

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR OCT 1 THRU 31

(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;

TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

DATE	SITE	TEMPERATURE OUTSIDE			
		(8-FT) 023	(30-FT) 023	(100-FT) 023	(200-FT) 023
10/ 1		78.0(13:25)	77.0(13:25)		71.0(11:55)
10/ 2		80.0(14:10)	79.0(14:10)	69.0(17:15)	73.0(14:20)
10/ 3		50.0(1:40)	59.0(1:35)	59.0(1:20)	57.0(1:35)
10/ 4		72.0(15:05)	67.0(0:05)	65.0(15:05)	66.0(5:05)
10/ 5		57.0(16:30)	52.0(16:25)	50.0(0:05)	55.0(16:40)
10/ 6		55.0(13:50)	51.0(15:35)	50.0(15:40)	51.0(14:00)
10/ 7		66.0(13:35)	58.0(13:50)	76.0(15:10)	80.0(15:10)
10/ 8		70.0(14:30)	62.0(15:00)	60.0(14:55)	65.0(15:05)
10/ 9		67.0(14:00)	61.0(15:05)	59.0(15:05)	60.0(15:40)
10/10		62.0(16:15)	59.0(16:15)	57.0(17:10)	56.0(12:00)
10/11		55.0(12:50)	50.0(13:30)	48.0(13:00)	51.0(18:00)
10/12		62.0(15:45)	57.0(16:15)	56.0(16:30)	59.0(15:40)
10/13		73.0(14:45)	66.0(15:40)	64.0(15:35)	68.0(15:00)
10/14		70.0(15:20)	63.0(16:10)	61.0(16:05)	64.0(15:05)
10/15		83.0(15:30)	76.0(16:00)	74.0(16:00)	76.0(17:00)
10/16		64.0(10:50)	63.0(13:40)	63.0(15:45)	66.0(14:50)
10/17					
10/18		68.0(17:30)	69.0(17:30)	68.0(17:30)	69.0(17:30)
10/19		72.0(14:35)	70.0(13:40)	69.0(15:40)	70.0(13:35)
10/20		69.0(13:40)	68.0(13:40)	66.0(13:40)	67.0(14:10)
10/21		60.0(14:30)	58.0(10:15)	58.0(14:35)	58.0(14:35)
10/22		57.0(13:45)	55.0(13:45)	55.0(16:00)	57.0(14:10)
10/23		53.0(12:35)	51.0(12:20)	51.0(12:35)	52.0(12:35)
10/24		48.0(11:20)	46.0(11:10)	46.0(11:20)	52.0(11:30)
10/25		55.0(16:20)	52.0(15:30)	53.0(17:00)	54.0(15:45)
10/26		60.0(16:05)	57.0(14:40)	57.0(16:05)	58.0(14:05)
10/27		55.0(14:05)	53.0(14:25)	52.0(14:05)	54.0(14:35)
10/28		42.0(22:35)	42.0(19:30)	43.0(19:30)	42.0(19:30)
10/29		40.0(1:10)	40.0(6:10)	41.0(3:20)	40.0(3:20)
10/30		38.0(13:50)	35.0(13:50)	36.0(15:15)	36.0(13:50)
10/31		37.0(15:40)	35.0(16:10)	36.0(17:20)	36.0(17:40)

TABLE VI. THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES FOR OCT 1-31
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

SITE	NITROGEN OXIDES(NOX)	
	1-HOUR	023
1 10/ 4(8:15- 9:15)	64.3	1 10/ 1(1:05- 2:05) 159.0
2 10/ 4(18:25-19:25)	45.1	2 10/ 1(2:45- 3:45) 144.3
3 10/ 4(10:30-11:30)	44.2	3 10/ 1(4:50- 5:50) 137.8
4 10/ 5(1:00- 2:00)	44.0	4 10/ 7(2:50- 1:50) 24.8
5 10/ 4(16:55-17:55)	42.0	5 10/23(8:50- 9:50) 20.1

SITE	NITRIC OXIDE(NO)	
	1-HOUR	023
1 10/ 6(19:55-20:55)	26.8	1 10/ 1(1:05- 2:05) 124.5
2 10/ 6(12:00-13:00)	25.7	2 10/ 1(2:45- 3:45) 117.5
3 10/ 6(21:40-22:40)	20.4	3 10/ 1(4:50- 5:50) 106.4
4 10/ 6(23:10- 0:15)	20.2	4 10/10(21:05-22:05) 20.0
5 10/ 5(16:00-17:00)	19.5	5 10/12(22:15-23:15) 19.3

SITE	NITROGEN DIOXIDE(NO2)	
	1-HOUR	023
1 10/ 4(8:20- 9:20)	55.5	1 10/ 1(1:10- 2:10) 35.4
2 10/ 4(18:15-19:15)	42.8	2 10/ 1(4:50- 5:50) 31.4
3 10/ 4(10:05-11:05)	42.1	3 10/ 1(2:45- 3:45) 26.7
4 10/ 5(1:15- 2:15)	40.9	4 10/23(8:50- 9:50) 20.1
5 10/ 4(23:00- 0:00)	36.4	5 10/23(10:20-11:20) 18.1

TABLE VI. THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES FOR OCT 1-31
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

SITE	W20	SULFUR DIOXIDE 30-MINUTE	W21	W22
1	10/ 7 (16:15-16:45)	64.7	1 10/ 7 (13:30-13:30)	269.6
2	10/ 7 (14:50-15:20)	63.8	2 10/ 7 (13:35-14:25)	188.9
3	10/ 7 (12:20-12:50)	57.7	3 10/29 (5:20- 5:50)	155.2
4	10/16 (13:10-13:40)	49.9	4 10/29 (21:15-21:45)	99.4
5	10/ 7 (21:15-20:45)	48.6	5 10/29 (22:45-23:15)	95.5

SITE	023	024
1	10/ 2(18:40-19:10)	10/23(3:50- 4:20)
2	10/15(15:05-15:35)	10/23(4:35- 5:05)
3	10/ 3(1:15- 1:45)	10/23(5:20- 5:50)
4	10/15(16:15-16:45)	10/23(6:05- 6:35)
5	10/15(16:50-17:20)	10/23(6:55- 7:25)

SITE	SULFUR DIOXIDE 3-HOUR		S22		S22		
	220	221	220	221	220	221	
1	10/ 7(14:10-17:10)	52.3	1	10/ 7(12:30-15:30)	127.0	1	10/ 1(12:55-15:55)
2	10/ 7(19:45-22:45)	30.1	2	10/29(3:40- 6:40)	84.5	2	10/ 1(23:05- 2:05)
3	10/ 9(4:50- 7:50)	10.9	3	10/29(21:10- 0:10)	60.2	3	10/ 1(15:07-19:00)
4	10/ 7(22:55- 1:55)	13.6	4	10/20(21:50- 0:50)	29.7	4	10/ 2(2:05- 5:05)
5	10/ 8(20:30-23:30)	11.9	5	10/31(18:25-21:25)	29.4		

SITE	023	024	
1	10/15(15:20-19:20)	10/23(5:15- 8:15)	14.4
2	10/15(18:25-21:20)	10/23(8:20-11:20)	14.1
3	10/11(11:20-14:00)	10/23(22:45- 1:45)	13.0
4	10/11(15:30-18:30)	10/24(1:50- 4:50)	12.4
5	10/11(22:50- 1:50)	11/24(6:30- 9:30)	11.8

TABLE VI. THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES FOR OCT 1-31
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

SITE	SULFUR DIOXIDE					
	020	021	022	023	024	
	1 10/ 7-10/ 8(12:00)	20.1	1 10/20-10/30(1:00)	27.2	1 10/ 1-10/ 2(11:00)	3.7
	2 10/ 6-10/ 9(18:00)	9.3	2 10/ 6-10/ 7(22:00)	16.5		
	3 10/10-10/17(12:00)	1.1	3 10/30-10/31(0:00)	9.6		
	4 10/10-10/16(10:00)	1.2	4 10/20-10/21(17:00)	4.0		
	5 10/21-10/22(11:00)	2.5	5 10/16-10/17(20:00)	1.5		

SITE	HYDROGEN SULFIDE(H2S)					
	020	021	022	023	024	
	1 10/11-10/12(3:00)	17.2	1 10/23-10/24(2:00)	12.5		
	2 10/10-10/16(1:00)	15.9				
	3 10/ 6-10/ 7(13:00)	10.3				
	4 10/ 5-10/ 6(2:00)	11.0				
	5 10/13-10/14(2:00)	2.4				

SITE	HYDROGEN SULFIDE(H2S)					
	020	021	022	023	024	
	1 10/21(11:55-12:55)	3.3	1 10/20(20:00-21:00)	130.0	1 10/ 1(3:30- 4:30)	14.1
	2 10/10(12:50-13:50)	3.1	2 10/20(21:15-22:15)	85.8	2 10/ 1(4:35- 5:35)	3.2
	3 10/ 2(23:55- 0:55)	4.7	3 10/20(10:25-10:25)	14.9	3 10/20(21:35-22:35)	3.0
	4 10/20(13:40-14:40)	2.3	4 10/22(21:20-22:20)	14.0	4 10/25(14:20-15:20)	2.5
			5 10/20(16:40-17:40)	6.7	5 10/25(15:25-16:25)	2.0

SITE	SULFUR DIOXIDE					
	020	021	022	023	024	
	1 10/31(19:05-20:05)	145.3				
	2 10/23(8:50- 9:50)	79.2				
	3 10/23(12:50-13:50)	71.0				
	4 10/23(3:40- 4:40)	39.1				
	5 10/23(6:05- 7:05)	20.9				

SITE	020		023		TOTAL HYDROCARBON 3-HOUR (6-9AM)
1	10/7	(6:00-9:00)	10/1	(6:00-9:00)	18330.8
2	10/5	(6:00-9:00)	10/2	(6:00-9:00)	16582.9
3	10/25	(6:00-9:00)	10/29	(6:00-9:00)	10591.2
4	10/29	(6:00-9:00)	10/26	(6:00-9:00)	10195.0
5	10/15	(6:00-9:00)	10/27	(6:00-9:00)	9787.3

SITE		02W	METHANE 3-HOUR (6-9AM) 023
1	10/29(6:00 - 9:00)	792.7	1 10/ 1(6:00 - 9:00)13989.8
2	10/24(6:00 - 9:00)	783.1	2 10/ 2(6:00 - 9:00)13339.3
3	10/ 2(6:00 - 9:00)	605.7	3 10/ 7(6:00 - 9:00) 4361.2
			4 10/29(6:00 - 9:00) 885.9
			5 10/31(6:00 - 9:00) 856.9

SITE	0200	0230	NONMETHANE HYDROCARBON 3-HOUR (6-9AM)
1	10/29 (6:00 - 9:00)	88.7	1 10/29 (6:00 - 9:00) 9705.3
2	10/24 (6:00 - 9:00)	69.7	2 10/26 (6:00 - 9:00) 9381.9
			3 10/27 (6:00 - 9:00) 8960.2
			4 10/30 (6:00 - 9:00) 7458.4
			5 10/31 (6:00 - 9:00) 7375.5

TABLE VI. THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES FOR OCT 1-31
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

SITE	070NE		023	
	1-HOUR		023	
	020			
1	10/ 1(11:40-12:40)	122.1	1 10/ 2(17:10-18:10)	104.5
2	10/ 2(10:55-15:55)	115.6	2 10/ 2(6:55- 7:55)	100.9
3	10/ 1(12:45-13:45)	115.1	3 10/ 3(5:05- 7:05)	99.0
4	10/ 1(13:50-14:50)	113.0	4 10/ 2(22:05-23:05)	96.4
5	10/15(13:00-14:00)	113.8	5 10/ 2(1:55- 2:55)	95.2

SITE	CARBON MONOXIDE		023	
	1-HOUR		023	
	020			
1	10/ 7(5:50- 6:50)	4293.8	1 10/23(2:50- 3:50)	31420.1
2	10/ 7(7:55- 8:55)	4293.8	2 10/ 1(8:15- 9:15)	12439.0
3	10/ 5(3:50- 4:50)	2817.2	3 10/ 1(20:30-21:30)	11540.9
4	10/ 5(1:55- 2:55)	2733.6	4 10/ 4(18:00-19:00)	11443.2
5	10/ 6(3:50- 4:50)	2231.4	5 10/ 1(4:50- 5:50)	11317.5

SITE	CARBON MONOXIDE		023	
	1-HOUR		023	
	020			
1	10/ 4(18:55- 2:55)	2023.0	1 10/ 1(4:55-12:55)	9890.7
2	10/ 5(3:55-11:55)	2022.0	2 10/ 4(15:55-23:55)	9125.9
3	10/ 6(3:55-11:55)	1942.9	3 10/ 1(19:55- 3:55)	8268.5
4	10/ 5(18:55- 2:55)	1857.2	4 10/ 2(4:55-12:55)	6866.9
5	10/ 4(4:55-12:55)	1857.4	5 10/ 2(16:55- 0:55)	6581.6

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NIITROGEN OXIDES(NOX)

TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

CONCENTRATION UG/M**3 GT 500	WIND DIRECTION																	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
550 - 600	:																:	
500 - 550	:																:	
450 - 500	:																:	
400 - 450	:																:	
350 - 400	:																:	
300 - 350	:																:	
250 - 300	:																:	
200 - 250	:																:	
150 - 200	:																:	
100 - 150	:																:	
50 - 100	:																:	
LT 50	:	60	120	57	112	1512	2190	1116	147	204	231	227	231	616	568	290	234 : 7923	
TOTAL	:	60	120	57	113	1513	2199	1116	148	204	231	228	231	619	574	290	234 : 7937	
MEAN	3.	5.	9.	5.	7.	6.	4.	4.	4.	4.	5.	5.	5.	6.	7.	6.	5. 6.	

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITROGEN OXIDES(NOX) TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

CONCENTRATION UG/M**3 GT 600	N	NNE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION								NW	NNW	TOTAL
									S	SSW	SW	WSW	W	WNW					
550 - 600	:																		:
500 - 550	:																		:
450 - 500	:																		:
400 - 450	:																		:
350 - 400	:																		:
300 - 350	:																		:
250 - 300	:																		:
200 - 250	:																		:
150 - 200	:							3	2	3	4								:
100 - 150	:			1	1	2	1	3	6	6	6	1					1		:
50 - 100	:		0	2	1	2	0	1	0	0	0	0	0				0		:
LT 50	:	31	50	33	83	99	73	136	126	201	259	418	153	78	45	55	82		1922
TOTAL	:	31	50	34	86	102	76	139	133	213	267	427	163	79	45	55	83		1983
MEAN		9.	10.	14.	12.	12.	12.	13.	14.	14.	12.	11.	16.	10.	9.	9.	10.		12.

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITRIC OXIDE (NO)

ATLANTIC RICHFIELD
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

WIND DIRECTION

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CONCENTRATION																	
UG/M**3																	
GT 600	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
550 - 600	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
500 - 550	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
450 - 500	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
400 - 450	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
350 - 400	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
300 - 350	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
250 - 300	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
200 - 250	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
150 - 200	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
100 - 150	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
50 - 100	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
LT 50	:	60	120	57	113	1513	2199	1116	148	204	231	228	231	617	573	290	234 : 7934
TOTAL	:	60	120	57	113	1513	2199	1116	148	204	231	228	231	619	574	290	234 : 7937
MEAN	1.	1.	2.	1.	1.	1.	1.	1.	2.	2.	2.	2.	1.	2.	2.	1.	1.

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITRIC OXIDE (NO)

TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

CONCENTRATION UG/M*3 ST 0000	WIND DIRECTION																	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
550 - 600	:																:	
500 - 550	:																:	
450 - 500	:																:	
400 - 450	:																:	
350 - 400	:																:	
300 - 350	:																:	
250 - 300	:																:	
200 - 250	:																:	
150 - 200	:																:	
100 - 150	:																:	
50 - 100	:																:	
LT 50	:	31	50	33	83	100	75	136	127	201	259	418	153	78	45	55	82 : {926	
TOTAL	:	31	50	34	86	102	76	139	133	213	267	427	163	79	45	55	83 : {983	
MEAN		5.	7.	13.	10.	8.	7.	7.	10.	10.	8.	7.	11.	6.	7.	8.	8.	

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITROGEN DIOXIDE (NO2)

TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

CONCENTRATION UG/M**3 GT DATA		WIND DIRECTION																TOTAL
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		TOTAL
550 - 600	:																	:
500 - 550	:																	:
450 - 500	:																	:
400 - 450	:																	:
350 - 400	:																	:
300 - 350	:																	:
250 - 300	:																	:
200 - 250	:																	:
150 - 200	:																	:
100 - 150	:																	:
50 - 100	:																	:
LT DATA	:	60	120	57	113	1513	2198	1116	147	204	231	227	231	618	571	290	234	: 7930
TOTAL	:	60	120	57	113	1513	2199	1116	148	204	231	228	231	619	574	290	234	: 7937
MEAN		2.	4.	8.	4.	4.	5.	4.	4.	2.	3.	3.	4.	4.	4.	5.	4.	4.

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITROGEN DIOXIDE(ND2)

ATLANTIC RICHFIELD
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

CONCENTRATION UG/M**3 GT 500	WIND DIRECTION																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
550 - 600	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
500 - 550	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
450 - 500	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
400 - 450	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
350 - 400	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
300 - 350	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
250 - 300	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
200 - 250	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
150 - 200	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
100 - 150	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
50 - 100	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
LT 50	:	31	50	34	86	101	74	139	132	214	267	426	164	79	44	55	83 : 1979
TOTAL	:	31	50	34	86	102	76	139	133	214	267	426	164	79	44	55	83 : 1983
MEAN	:	3.	3.	1.	2.	3.	5.	3.	5.	5.	4.	4.	5.	3.	3.	1.	2. 4.

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

TOTAL HYDROCARBONS

TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)
 ATLANTIC RICHFIELD

CONCENTRATION	WIND DIRECTION												TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW		NW	NNW
UG/M**3															
GT 6000															:
5400 - 6000															:
4800 - 5400															:
4200 - 4800															:
3600 - 4200															:
3000 - 3600															:
2400 - 3000						1	2					2	1		:
1800 - 2400					3	26	11				1	2	0		:
1200 - 1800					6	17	6						0		:
600 - 1200	22	42	16	29	309	574	285	41	42	64	46	67	196	136	:
LT 600	12	23	8	17	218	344	175	22	23	35	25	37	111	77	:
TOTAL	34	69	24	46	536	962	479	63	65	99	72	105	308	217	:
MEAN	522.	567.	582.	538.	538.	589.	586.	552.	551.	527.	543.	538.	528.	553.	:

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

TOTAL HYDROCARBONS

ATLANTIC RICHFIELD
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

CONCENTRATION UG/M**3 GT 6000	WIND DIRECTION																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
: 7 17 23 30 40 29 44 40 36 61 101 45 13 16 21 33 : 556																	
5400 - 6000	0	0	0	0	1	1	1	3	1	0	0	0	0	0	1	0	8
4800 - 5400	1	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	6
4200 - 4800	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
3600 - 4200	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	4
3000 - 3600	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2
2400 - 3000	0	0	0	0	1	1	3	2	1	1	0	0	1	0	0	0	10
1800 - 2400	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	3
1200 - 1800	0	0	0	0	0	0	3	0	0	0	1	0	0	0	1	0	5
600 - 1200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT	0	0	0	0	0	158	0	0	0	0	0	0	0	158	0	0	316
TOTAL	8	17	23	33	44	191	56	45	38	63	104	46	14	174	23	33	912
MEAN/100	163. 198. 173. 161. 153. 25. 127. 146. 154. 167. 163. 173. 169. 117. 178. 191. 105.																

MEAN/100

163. 193. 173. 161. 153. 25. 127. 140. 154. 167. 163. 173. 169. 17. 178. 191. 105.

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

METHANE (CH₄)

TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

ATLANTIC RICHFIELD

| CONCENTRATION | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|---------------|----------------|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|----|-----|------|--|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| UG/M**3 | | | | | | | | | | | | | | | | | : | |
| GT 5000 | | | | | | | | | | | | | | | | | : | |
| 5400 - 6000 | | | | | | | | | | | | | | | | | : | |
| 4800 - 5400 | | | | | | | | | | | | | | | | | : | |
| 4200 - 4800 | | | | | | | | | | | | | | | | | : | |
| 3600 - 4200 | | | | | | | | | | | | | | | | | : | |
| 3000 - 3600 | | | | | | | | | | | | | | | | | : | |
| 2400 - 3000 | | | | | | | | | | | | | | 1 | 1 | | 2 | |
| 1800 - 2400 | | | | | | | | | | | | | | 0 | 0 | | 0 | |
| 1200 - 1800 | | 2 | | | | | | | | | | 1 | | 0 | 0 | | 3 | |
| 600 - 1200 | 13 | 27 | 8 | 16 | 155 | 206 | 97 | 15 | 14 | 11 | 9 | 15 | 65 | 59 | 62 | 38 | 810 | |
| LT 500 | 7 | 15 | 4 | 12 | 140 | 147 | 72 | 8 | 7 | 6 | 6 | 8 | 40 | 38 | 35 | 21 | 566 | |
| TOTAL | 20 | 44 | 12 | 28 | 295 | 353 | 169 | 23 | 21 | 17 | 15 | 24 | 105 | 98 | 98 | 59 | 1381 | |
| MEAN | | | | | | | | | | | | | | | | | | 545. 548. 548. 547. 474. 488. 489. 553. 570. 513. 499. 563. 509. 507. 524. 492. 498. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

METHANE(CH4)

ATLANTIC RICHFIELD

TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

WIND DIRECTION

CONCENTRATION

UG/4**3

GT 6000

| | N | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-------|
| 5400 - 6000 | 6 | 17 | 23 | 30 | 32 | 22 | 28 | 30 | 29 | 61 | 101 | 43 | 11 | 13 | 20 | 31 | 497 |
| 4800 - 5400 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 4200 - 4800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3600 - 4200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 3000 - 3600 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2400 - 3000 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1800 - 2400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1200 - 1800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 600 - 1200 | 10 | 23 | 8 | 30 | 39 | 25 | 77 | 65 | 104 | 105 | 249 | 99 | 53 ^c | 25 | 21 | 39 | 989 |
| LT 6000 | 3 | 4 | 1 | 6 | 6 | 4 | 13 | 12 | 18 | 19 | 44 | 18 | 9 | 4 | 3 | 9 | 173 |
| TOTAL | 28 | 44 | 32 | 75 | 79 | 51 | 118 | 107 | 152 | 186 | 396 | 161 | 74 | 42 | 44 | 79 | 1668 |
| MEAN/100 | 35. | 55. | 100. | 57. | 61. | 63. | 38. | 44. | 32. | 49. | 39. | 41. | 28. | 46. | 63. | 59. | 45. |

CORPORATION

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NON-METHANE HYDROCARBONS
 TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)
 ATLANTIC RICHFIELD

| CONCENTRATION | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|---------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| UG/Y**3 | : | | | | | | | | | | | | | | | | : | |
| GT 6000 | : | | | | | | | | | | | | | | | | : | |
| 5400 - 6000 | : | | | | | | | | | | | | | | | | : | |
| 4800 - 5400 | : | | | | | | | | | | | | | | | | : | |
| 4200 - 4800 | : | | | | | | | | | | | | | | | | : | |
| 3600 - 4200 | : | | | | | | | | | | | | | | | | : | |
| 3000 - 3600 | : | | | | | | | | | | | | | | | | : | |
| 2400 - 3000 | : | | | | | | | | | | | | | | | | : | |
| 1800 - 2400 | : | | | | | | | | | | | | | | | | : | |
| 1200 - 1800 | : | | | | | | 1 | | | | | | 1 | | | | : | |
| 600 - 1200 | : | | | | | | 1 | | | | | 1 | | | | | : | |
| LT 600 | : | 20 | 45 | 12 | 28 | 293 | 350 | 169 | 23 | 21 | 17 | 14 | 25 | 102 | 98 | 59 | : 1374 | |
| TOTAL | : | 20 | 45 | 12 | 28 | 294 | 352 | 169 | 23 | 21 | 17 | 15 | 25 | 104 | 98 | 59 | : 1380 | |
| MEAN | | 34. | 27. | 35. | 29. | 30. | 29. | 33. | 56. | 58. | 35. | 91. | 21. | 41. | 35. | 31. | 29. 33. | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NON-METHANE HYDROCARBONS

 ATLANTIC RICHFIELD
 TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| CONCENTRATION
UG/M**3
GT 6000 | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|-------------------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| 5400 - 6000 | 4 | 10 | 5 | 9 | 7 | 4 | 7 | 4 | 9 | 19 | 24 | 13 | 4 | 7 | 13 | 12 | 151 | |
| 4800 - 5400 | 0 | 2 | 1 | 4 | 2 | 1 | 2 | 4 | 2 | 2 | 8 | 3 | 1 | 1 | 1 | 4 | 38 | |
| 4200 - 4800 | 2 | 1 | 4 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 11 | 3 | 1 | 3 | 3 | 2 | 42 | |
| 3600 - 4200 | 0 | 2 | 2 | 3 | 4 | 0 | 2 | 3 | 0 | 3 | 6 | 10 | 1 | 0 | 0 | 8 | 44 | |
| 3000 - 3600 | 0 | 2 | 2 | 2 | 3 | 1 | 0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 4 | 24 | |
| 2400 - 3000 | 1 | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 3 | 8 | 5 | 3 | 1 | 0 | 0 | 0 | 30 | |
| 1800 - 2400 | 0 | 0 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 16 | |
| 1200 - 1800 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | |
| 600 - 1200 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 15 | |
| LT 600 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 5 | |
| TOTAL | 0 | 0 | 11 | 9 | 23 | 17 | 13 | 24 | 15 | 33 | 79 | 18 | 3 | 0 | 1 | 0 | 246 | |
| MEAN/100 | 7 | 17 | 28 | 34 | 45 | 31 | 34 | 43 | 34 | 77 | 140 | 53 | 13 | 13 | 20 | 31 | 620 | |
| | 59. | 66. | 30. | 38. | 25. | 19. | 31. | 23. | 30. | 29. | 25. | 37. | 40. | 64. | 62. | 57. | 33. | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(SO2)

TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

ATLANTIC RICHFIELD

| CONCENTRATION
UG/M*3
GT 723 | WIND DIRECTION | | | | | | | | | | | | | | | | NNW | TOTAL |
|-----------------------------------|----------------|-----|----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | | | |
| 650 - 700 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 600 - 650 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 550 - 600 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 500 - 550 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 450 - 500 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 400 - 450 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 350 - 400 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 300 - 350 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 250 - 300 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 200 - 250 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 150 - 200 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 100 - 150 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 50 - 100 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| LT 50 | 57 | 119 | 55 | 114 | 1460 | 2086 | 1125 | 175 | 223 | 219 | 209 | 216 | 542 | 534 | 297 | 232 | 7663 | |
| TOTAL | 57 | 119 | 55 | 114 | 1462 | 2089 | 1126 | 176 | 223 | 219 | 209 | 220 | 553 | 546 | 298 | 232 | 7698 | |
| MEAN | 1. | 1. | 1. | 0. | 1. | 1. | 1. | 1. | 1. | 1. | 0. | 3. | 2. | 3. | 1. | 0. | 1. | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(SO2) TRAILER NO. - 21 PERIOD(10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

CONCENTRATION WIND DIRECTION

| UG/4**3 | ST 700 | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-----------|--------|-----|-----|----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 650 - 700 | : | | | | | | | | | | | | | | | | | : |
| 600 - 650 | : | | | | | | | | | | | | | | | | | : |
| 550 - 600 | : | | | | | | | | | | | | | | | | | : |
| 500 - 550 | : | | | | | | | | | | | | | | | | | : |
| 450 - 500 | : | | | | | | | | | | | | | | | | | : |
| 400 - 450 | : | | | | | | | | | | | | | | | | | : |
| 350 - 400 | : | | | | | | | | | | | | | | | | | : |
| 300 - 350 | : | | | | | | | | | | | | | | | | | : |
| 250 - 300 | : | 2 | | | 1 | | | 3 | | | 1 | 1 | 1 | 1 | 5 | 2 | 16 | : |
| 200 - 250 | : | | | | | | | | | | | | 1 | | | 1 | 2 | : |
| 150 - 200 | : | | | | | | 3 | 1 | | | 1 | 0 | 0 | 0 | 0 | 0 | 5 | : |
| 100 - 150 | : | | | 1 | | 2 | 4 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 15 | : |
| 50 - 100 | : | 2 | 1 | 0 | 1 | 0 | 2 | 4 | 4 | 0 | 0 | 2 | 1 | 3 | 4 | 1 | 25 | : |
| LT 50 | : | 172 | 134 | 71 | 61 | 235 | 998 | 1605 | 1103 | 538 | 173 | 135 | 107 | 118 | 232 | 517 | 919 | 7048 |
| TOTAL | : | 174 | 137 | 72 | 63 | 237 | 1007 | 1615 | 1108 | 539 | 173 | 137 | 111 | 120 | 237 | 526 | 925 | 7111 |
| MEAN | : | 2. | 5. | 2. | 5. | 3. | 3. | 1. | 1. | 2. | 1. | 3. | 6. | 2. | 3. | 3. | 1. | 2. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(SO₂)ATLANTIC RICHFIELD
TRAILER NO. - 22 PERIOD(10/ 1/74 TO 10/31/74)

| CONCENTRATION
UG/M*3
GT 720 | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|-----------------------------------|----------------|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|-----------|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| 650 - 700 | : | | | | | | | | | | | | | | | | : | |
| 600 - 650 | : | | | | | | | | | | | | | | | | : | |
| 550 - 600 | : | | | | | | | | | | | | | | | | : | |
| 500 - 550 | : | | | | | | | | | | | | | | | | : | |
| 450 - 500 | : | | | | | | | | | | | | | | | | : | |
| 400 - 450 | : | | | | | | | | | | | | | | | | : | |
| 350 - 400 | : | | | | | | | | | | | | | | | | : | |
| 300 - 350 | : | | | | | | | | | | | | | | | | : | |
| 250 - 300 | : | | | | | | | | | | | | | | | | : | |
| 200 - 250 | : | | | | | | | | | | | | | | | | : | |
| 150 - 200 | : | | | | | | | | | | | | | | | | : | |
| 100 - 150 | : | | | | | | | | | | | | | | | | : | |
| 50 - 100 | : | | | | | | | | | | | | | | | | : | |
| LT 50 | : | 6 | 16 | 8 | 21 | 243 | 424 | 49 | 31 | 11 | 13 | 19 | 52 | 97 | 64 | 16 | 10 : 1080 | |
| TOTAL | : | 6 | 16 | 8 | 21 | 243 | 424 | 49 | 31 | 11 | 13 | 19 | 52 | 97 | 64 | 16 | 10 : 1080 | |
| MEAN | | 1. | 1. | 2. | 2. | 0. | 1. | 0. | 0. | 0. | 0. | 1. | 2. | 2. | 1. | 1. | 1. | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(SO2)

TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

| | | WIND DIRECTION | | | | | | | | | | | | | | | | | |
|---------------|--|----------------|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------------|--|
| | | N | NNE | NE | ELE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | |
| CONCENTRATION | | | | | | | | | | | | | | | | | | | |
| UG/M**3 | | | | | | | | | | | | | | | | | | | |
| GT 720 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 650 - 700 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 600 - 650 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 550 - 600 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 500 - 550 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 450 - 500 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 400 - 450 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 350 - 400 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 300 - 350 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 250 - 300 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 200 - 250 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 150 - 200 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 100 - 150 | | : | 1 | | | 1 | | | | | | | | | | | | 2 | |
| 50 - 100 | | : | 0 | | | 1 | | | | 3 | 2 | | | | | | | 6 | |
| LT 50 | | : | 46 | 73 | 62 | 89 | 129 | 136 | 215 | 246 | 363 | 628 | 649 | 242 | 126 | 97 | 153 | 207 : 3461 | |
| TOTAL | | : | 47 | 73 | 62 | 89 | 131 | 136 | 215 | 245 | 363 | 631 | 651 | 242 | 126 | 97 | 153 | 207 : 3469 | |
| MEAN | | : | 4. | 6. | 2. | 1. | 3. | 2. | 2. | 2. | 1. | 1. | 2. | 1. | 2. | 1. | 1. | 2. | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(SO2)

TRAILER NO. - 24 PERIOD(10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

| CONCENTRATION
UG/Y**3
GT 740 | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|------------------------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| 650 - 700 | : | | | | | | | | | | | | | | | | : | |
| 600 - 650 | : | | | | | | | | | | | | | | | | : | |
| 550 - 600 | : | | | | | | | | | | | | | | | | : | |
| 500 - 550 | : | | | | | | | | | | | | | | | | : | |
| 450 - 500 | : | | | | | | | | | | | | | | | | : | |
| 400 - 450 | : | | | | | | | | | | | | | | | | : | |
| 350 - 400 | : | | | | | | | | | | | | | | | | : | |
| 300 - 350 | : | | | | | | | | | | | | | | | | : | |
| 250 - 300 | : | | | | | | | | | | | | | | | | : | |
| 200 - 250 | : | | | | | | | | | | | | | | | | : | |
| 150 - 200 | : | | | | | | | | | | | | | | | | : | |
| 100 - 150 | : | | | | | | | | | | | | | | | | : | |
| 50 - 100 | : | | | | | | | | | | | | | | | | : | |
| LT 50 | : | | | | | | | | | | | | | | | | : | |

TOTAL

UFAC

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (P25)

ATLANTIC RICHFIELD

TRAILER NO. - 28 PERIOD(10/ 1/74 TO 10/31/74)

| CONCENTRATION
UG/4**3
GT 10 | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|-----------------------------------|----------------|-----|-----|-----|----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| 132 - 14 | : | | | | | | | | | | | | | | | | : |
| 123 - 13 | : | | | | | | | | | | | | | | | | : |
| 112 - 12 | : | | | | | | | | | | | | | | | | : |
| 103 - 11 | : | | | | | | | | | | | | | | | | : |
| 93 - 10 | : | | | | | | | | | | | | | | | | : |
| 83 - 9 | : | | | | | | | | | | | | | | | | : |
| 73 - 8 | : | | | | | | | | | | | | | | | | : |
| 63 - 7 | : | | | | | | | | | | | | | | | | : |
| 53 - 6 | : | | | | | | | | | | | | | | | | : |
| 43 - 5 | : | | | | | | | | | | | 1 | | | | | 1 |
| 33 - 4 | : | | | | | | | | | | | 0 | | | | | 0 |
| 23 - 3 | : | | | | | | | | | | | 0 | 1 | | | | 1 |
| 13 - 2 | : | | | | | | | | | | | 0 | 0 | | | | 0 |
| LT 10 | : | 65 | 133 | 67 | 97 | 1547 | 2229 | 1181 | 154 | 203 | 221 | 221 | 245 | 707 | 649 | 337 | 251 : 8307 |

.....

0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (H₂S) TRAILER NO. - 21 PERIOD (10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

| CONCENTRATION
UG/M**3
ST 10' | | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|------------------------------------|---|----------------|-----|----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|--------|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| 13" - 14" | : | | | | | | | 1 | | | | 1 | | | | | | : | |
| 12" - 13" | : | | | | | | | 0 | | | | 0 | | | | | | : | |
| 11" - 12" | : | | | | | | | 1 | | | | 0 | | | | | | : | |
| 10" - 11" | : | | | | | | | 0 | | | | 0 | | | | | | : | |
| 09" - 10" | : | | | | | | | 0 | | | | 0 | | | | | | : | |
| 08" - 09" | : | | | | | | | 1 | | | | 0 | | | | | | : | |
| 70" - 80" | : | | | | | | | 0 | 1 | | | 0 | | | | | | : | |
| 60" - 70" | : | | | | | | | 1 | 0 | | | 0 | | | | | | : | |
| 50" - 60" | : | | | | | | | 1 | 0 | | | 0 | | | | | | : | |
| 40" - 50" | : | | | | | | 1 | 0 | 2 | | | 0 | | | | | | : | |
| 30" - 40" | : | | | | | | 0 | 1 | 1 | 2 | | 0 | | | | | | : | |
| 20" - 30" | : | | | | | | 0 | 6 | 0 | 1 | | 0 | 1 | | | | | : | |
| 10" - 20" | : | | | | | | 1 | 5 | 2 | 3 | | 0 | 0 | | 1 | | 1 | : | |
| LT 10" | : | 123 | 139 | 73 | 63 | 237 | 1033 | 1590 | 1160 | 531 | 171 | 133 | 110 | 119 | 236 | 524 | 920 | : 7082 | |
| TOTAL | : | 123 | 140 | 73 | 63 | 237 | 1035 | 1597 | 1126 | 537 | 172 | 134 | 111 | 119 | 237 | 524 | 921 | : 7119 | |
| | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | | | | | | | | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (H2S)

TRAILER NO. - 22 PERIOD (10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

| CONCENTRATION | WIND DIRECTION | | | | | | | | | | | NNW | TOTAL | | | |
|---------------|----------------|-----|----|-----|-----|-----|------|-----|----|-----|----|-----|-------|-----|-----|----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | | | | | |
| UG/M*5 | | | | | | | | | | | | | | | | |
| GT 143 | : | | | | | | | | | | | | | | | : |
| 130 - 140 | : | | | | | | | | | | | | | | | : |
| 120 - 130 | : | | | | | | | | | | | | | | | : |
| 110 - 120 | : | | | | | | | | | | | | | | | : |
| 100 - 110 | : | | | | | | | | | | | | | | | : |
| 90 - 100 | : | | | | | | | | | | | | | | | : |
| 80 - 90 | : | | | | | | | | | | | | | | | : |
| 70 - 80 | : | | | | | | | | | | | | | | | : |
| 60 - 70 | : | | | | | | | | | | | | | | | : |
| 50 - 60 | : | | | | | | | | | | | | | | | : |
| 40 - 50 | : | | | | | | | | | | | | | | | : |
| 30 - 40 | : | | | | | | | | | | | | | | | : |
| 20 - 30 | : | | | | | | | | | | | | | | | : |
| 10 - 20 | : | | | | | | | | | | | | | | | : |
| LT 14 | : | 24 | 62 | 69 | 202 | 680 | 1289 | 170 | 77 | 38 | 39 | 49 | 115 | 315 | 254 | 64 |
| TOTAL | : | 24 | 62 | 69 | 202 | 690 | 1269 | 170 | 77 | 38 | 39 | 49 | 115 | 315 | 254 | 64 |
| MEAN | : | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

WILLIAM H. BROWN

23 PERIOD (12/ 1/74 TO 12/31/74) ATLANTIC RICHFIELD

[illegible]

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (H₂S)

ATLANTIC RICHFIELD
TRAILER NO. - 24 PERIOD (10/ 1/74 TO 10/31/74)

| CONCENTRATION
UG/M ³ ±3
GT 140 | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|---|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| 130 - 140 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 120 - 130 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 110 - 120 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 100 - 110 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 90 - 100 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 80 - 90 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 70 - 80 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 60 - 70 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 50 - 60 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 40 - 50 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 30 - 40 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 20 - 30 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 10 - 20 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| LT 10 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |

TOTAL

.....
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

1000

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

CARBON MONOXIDE(CO)

ATLANTIC RICHFIELD
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

WIND DIRECTION

| CONCENTRATION. | | | | | | | | | | | | | | | | | |
|----------------|----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| UG/M**3 | | | | | | | | | | | | | | | | | |
| GT 2000 | | | | | | | | | | | | | | | | | |
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
| : | 1 | 1 | 1 | 1 | 21 | 49 | 14 | 2 | | | 1 | 8 | 8 | 3 | 3 | 3 | 112 |
| 1800 - 2400 | : | 1 | 1 | 2 | 13 | 42 | 16 | 19 | 2 | 1 | 4 | 3 | 4 | 38 | 12 | 9 | 2 : 169 |
| 1500 - 1800 | : | 1 | 4 | 2 | 7 | 24 | 46 | 29 | 28 | 27 | 25 | 23 | 11 | 16 | 18 | 2 | 2 : 265 |
| 1200 - 1500 | : | 1 | 4 | 2 | 6 | 96 | 77 | 36 | 2 | 19 | 23 | 6 | 10 | 20 | 26 | 13 | 6 : 347 |
| 0900 - 1200 | : | 0 | 0 | 3 | 4 | 20 | 16 | 17 | 0 | 1 | 0 | 0 | 2 | 9 | 18 | 9 | 11 : 110 |
| 0600 - 0900 | : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 6 |
| 0300 - 0600 | : | 1 | 0 | 1 | 0 | 6 | 15 | 16 | 1 | 2 | 12 | 15 | 8 | 0 | 5 | 0 | 1 : 83 |
| 0000 - 0300 | : | 7 | 8 | 2 | 5 | 94 | 123 | 141 | 13 | 19 | 21 | 32 | 25 | 112 | 78 | 30 | 26 : 736 |
| 400 - 600 | : | 7 | 19 | 2 | 12 | 188 | 298 | 80 | 1 | 0 | 1 | 3 | 87 | 31 | 21 | 34 | 784 |
| 200 - 400 | : | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 9 |
| LT 200 | : | 42 | 75 | 8 | 16 | 125 | 310 | 235 | 92 | 32 | 25 | 8 | 58 | 83 | 141 | 185 | 50 : 1485 |
| TOTAL | : | 60 | 112 | 23 | 64 | 618 | 952 | 589 | 141 | 102 | 110 | 89 | 123 | 375 | 340 | 273 | 135 : 4106 |
| | | | | | | | | | | | | | | | | | |
| MEAN/100 | 3. | 3. | 9. | 10. | 8. | 7. | 6. | 5. | 9. | 10. | 10. | 6. | 8. | 6. | 3. | 6. | 7. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

CARBON MONOXIDE(CO) TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74) ATLANTIC RICHFIELD

| CONCENTRATION
UG/M**3
GT 2400 | | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|-------------------------------------|--|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| 1800 - 2400 | | 11 | 21 | 18 | 47 | 49 | 34 | 61 | 46 | 58 | 105 | 201 | 89 | 34 | 24 | 28 | 39 | 865 |
| 1600 - 1800 | | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 6 | 11 | 9 | 13 | 10 | 4 | 3 | 0 | 2 | 67 |
| 1400 - 1600 | | 2 | 4 | 1 | 5 | 2 | 6 | 3 | 9 | 7 | 16 | 23 | 5 | 7 | 1 | 2 | 6 | 99 |
| 1200 - 1400 | | 6 | 7 | 4 | 4 | 7 | 3 | 11 | 6 | 12 | 18 | 30 | 15 | 14 | 4 | 7 | 9 | 157 |
| 1000 - 1200 | | 4 | 2 | 4 | 14 | 16 | 7 | 36 | 33 | 45 | 41 | 82 | 31 | 9 | 4 | 4 | 4 | 336 |
| 800 - 1000 | | 0 | 1 | 1 | 0 | 1 | 2 | 3 | 1 | 3 | 3 | 13 | 8 | 0 | 1 | 0 | 2 | 39 |
| 600 - 800 | | 4 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| 400 - 600 | | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 7 |
| 200 - 400 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 3 |
| LT 2400 | | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 4 | 1 | 0 | 1 | 0 | 1 | 13 |
| TOTAL | | 25 | 55 | 34 | 72 | 94 | 69 | 131 | 135 | 154 | 209 | 447 | 175 | 68 | 53 | 41 | 81 | 1839 |
| MEAN/100 | | 34. | 27. | 51. | 44. | 35. | 50. | 31. | 31. | 32. | 44. | 32. | 38. | 29. | 30. | 46. | 36. | 36. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

OZONE (03)

 TAILER NO. - 20 PERIOD (10/ 1/74 TO 10/31/74)
 ATLANTIC RICHFIELD

| CONCENTRATION | | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|---------------|---|----------------|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| US/5**3 | | | | | | | | | | | | | | | | | | |
| GT 160 | : | | | | 1 | | | | | | | | | 1 | | | : | 2 |
| 150 - 160 | : | | | | 0 | | | | | | | | | 0 | | | : | 0 |
| 140 - 150 | : | | | | 0 | | | | | | | | | 0 | | | : | 0 |
| 130 - 140 | : | | | | 0 | | | | | | | | | 0 | | | : | 0 |
| 120 - 130 | : | 1 | | | 0 | | | | | | | | 1 | 3 | 2 | 1 | : | 8 |
| 110 - 120 | : | 0 | 1 | | 2 | | | 2 | 15 | 16 | 7 | 10 | 17 | 12 | 14 | 12 | : | 108 |
| 100 - 110 | : | 3 | 4 | | 3 | 8 | 1 | 2 | 11 | 8 | 11 | 17 | 56 | 65 | 59 | 36 | : | 284 |
| 90 - 100 | : | 6 | 13 | 4 | 2 | 12 | 6 | 3 | 9 | 16 | 20 | 8 | 80 | 78 | 35 | 42 | : | 352 |
| 80 - 90 | : | 8 | 20 | 11 | 1 | 18 | 23 | 26 | 7 | 7 | 19 | 25 | 68 | 44 | 17 | 21 | : | 344 |
| 70 - 80 | : | 3 | 7 | 3 | 9 | 73 | 68 | 56 | 5 | 3 | 5 | 12 | 95 | 60 | 9 | 10 | : | 435 |
| 60 - 70 | : | 13 | 13 | 0 | 6 | 66 | 106 | 74 | 10 | 5 | 10 | 5 | 54 | 32 | 18 | 22 | : | 481 |
| 50 - 60 | : | 6 | 12 | 2 | 15 | 153 | 186 | 67 | 7 | 31 | 19 | 14 | 7 | 12 | 12 | 10 | : | 564 |
| LT 50 | : | 11 | 42 | 34 | 90 | 1383 | 2160 | 1094 | 148 | 147 | 133 | 122 | 141 | 227 | 114 | 32 | : | 5989 |
| TOTAL | : | 51 | 112 | 60 | 128 | 1734 | 2557 | 1320 | 190 | 235 | 230 | 218 | 519 | 534 | 280 | 186 | : | 8567 |
| | | | | | | | | | | | | | | | | | | |
| MEAN | | 54. | 51. | 37. | 20. | 22. | 19. | 21. | 30. | 40. | 45. | 47. | 50. | 66. | 56. | 60. | 76. | 31. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

0700E (03)

TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

ATLANTIC RICHFIELD

| CONCENTRATION | WIND DIRECTION | | | | | | | | | | | | | | | | | |
|---------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | |
| US/****3 | | | | | | | | | | | | | | | | | | |
| GT 160 | : | | | | 1 | | | | 1 | | | | | | | | 2 | |
| 150 - 160 | : | | | | 0 | | | | 0 | | | | 1 | | | | 1 | |
| 140 - 150 | : | 1 | | | 0 | | | | 0 | | | | 0 | | 1 | | 2 | |
| 130 - 140 | : | 0 | | | 0 | | | | 0 | | | 1 | 0 | | 0 | | 1 | |
| 120 - 130 | : | 0 | | | 1 | | | | 0 | | 3 | 0 | 0 | | 0 | | 4 | |
| 110 - 120 | : | 0 | | | 0 | | | | 0 | | 0 | 0 | 0 | | 0 | | 0 | |
| 100 - 110 | : | 0 | | | 0 | | | 1 | 0 | | 3 | 0 | 0 | | 0 | | 4 | |
| 90 - 100 | : | 2 | 7 | 10 | 9 | 16 | 11 | 9 | 13 | 4 | 4 | 22 | 13 | 2 | 4 | 3 | 131 | |
| 80 - 90 | : | 4 | 7 | 12 | 19 | 16 | 11 | 19 | 15 | 21 | 35 | 55 | 28 | 8 | 10 | 10 | 274 | |
| 70 - 80 | : | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 14 | 1 | 0 | 5 | 17 | 52 | |
| 60 - 70 | : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 5 | |
| 50 - 60 | : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 6 | 2 | 1 | 1 | 0 | 0 | 15 | |
| LT 50 | : | 10 | 13 | 4 | 35 | 23 | 23 | 63 | 50 | 92 | 139 | 197 | 67 | 11 | 4 | 27 | 778 | |
| TOTAL | : | 22 | 30 | 25 | 64 | 57 | 45 | 91 | 88 | 121 | 193 | 206 | 112 | 23 | 24 | 57 | 1269 | |
| MEAN | : | 30. | 56. | 80. | 40. | 63. | 53. | 39. | 39. | 38. | 36. | 41. | 44. | 55. | 60. | 73. | 46. | 44. |

TABLE VIII

DIURNAL VARIATION OF ALL RECORDED PARAMETERS

DIURNAL VARIATION OF NITROGEN OXIDES(UG/M**3)
 TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 9 | 10 | 9 | 10 | * | 9 | * | 10 | 11 | 10 | 10 | 10 | 10 | 10 | 9 | 10 | 12 | 13 | 12 | 16 | 11 | 12 | 9 | 10 |
| 2 | 11 | 9 | 10 | 9 | 10 | 9 | 10 | 13 | 13 | 12 | 9 | 11 | | 19 | * | * | * | * | 10 | 10 | 10 | * | * | 11 |
| 3 | * | * | * | 9 | * | * | * | 9 | * | 9 | 43 | 41 | | 38 | 15 | 19 | 17 | 14 | 18 | 16 | 18 | 17 | 16 | 12 |
| 4 | 21 | 19 | 14 | 39 | 35 | 36 | 35 | 46 | 62 | 50 | 11 | 14 | 25 | 11 | 36 | 38 | 34 | 41 | 41 | 38 | 36 | 37 | 38 | 37 |
| 5 | 38 | 42 | 42 | | * | * | * | 15 | 18 | 17 | 19 | 15 | 25 | 13 | 13 | 12 | 12 | 10 | 15 | 15 | 31 | 21 | 25 | 18 |
| 6 | 15 | 17 | 14 | * | * | * | * | 16 | 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | 23 | * | * | * | * | * | * | 10 | 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | 18 | * | * | 9 | 14 | * | * | * | * | 9 | * | 9 | 13 | 12 | 9 | * |
| 9 | 9 | 9 | * | * | * | * | * | 16 | 20 | 18 | 15 | 16 | 14 | 14 | 15 | 16 | 14 | 14 | 11 | 13 | 16 | 14 | 14 | * |
| 10 | 15 | 13 | 14 | 13 | 14 | 15 | 17 | 16 | 22 | 18 | 17 | 18 | 16 | 16 | 19 | 21 | 23 | 17 | 15 | 19 | 20 | 15 | 15 | 14 |
| 11 | 18 | 16 | 15 | 15 | 16 | 15 | 18 | 19 | 22 | 18 | 17 | 18 | 16 | 16 | 19 | 21 | 23 | 17 | 14 | 13 | 16 | 15 | 15 | 17 |
| 12 | 18 | 17 | 16 | 16 | 17 | 19 | 19 | 19 | 21 | 19 | 18 | 18 | 17 | 17 | 17 | 18 | 17 | 17 | 14 | 13 | 14 | 16 | 16 | 17 |
| 13 | 23 | 19 | 17 | 18 | 13 | 17 | 18 | 20 | 23 | 19 | 18 | 19 | 19 | 15 | 16 | 17 | 16 | 17 | 17 | 19 | 17 | 18 | 18 | 19 |
| 14 | 18 | 18 | 18 | 17 | 19 | 18 | 19 | 20 | 23 | 21 | 16 | 13 | 16 | 15 | 15 | 14 | 14 | 15 | 16 | 20 | 18 | 17 | 17 | 17 |
| 15 | 17 | 16 | 15 | 15 | 16 | 16 | 16 | 17 | 19 | 16 | 18 | 17 | 15 | 13 | 13 | 12 | 13 | 16 | 18 | 13 | 17 | 17 | 17 | 16 |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 10 | * | 12 | 10 | 13 | * | * |
| 17 | 10 | * | * | * | * | * | 15 | 9 | 9 | * | * | * | * | * | * | * | * | * | * | 12 | 10 | 13 | 11 | 11 |
| 18 | * | * | * | * | * | * | 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | 14 | 15 | 19 | 15 | 16 | 17 | 15 | 15 | 13 | 11 | 11 | 13 | 12 | 11 | 10 | 9 | 9 | 12 |
| 20 | 11 | 10 | 12 | 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 10. | 9. | 9. | 8. | 8. | 8. | 9. | 10. | 13. | 10. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 10. | 10. | 10. | 9. | 9. | 9. |

TOTAL NUMBER OF OBSERVATIONS = 7872. MEAN = 9.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF NITROGEN OXIDES(UG/M*3)
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 112 | 156 | 136 | 148 | | 136 | 17 | 16 | 14 | 14 | 14 | 14 | 13 | 14 | 14 | 14 | 15 | * | | | * | * | * | * |
| 2 | 15 | 17 | 15 | 16 | 18 | 17 | 17 | 18 | 17 | 16 | 16 | 17 | 16 | 15 | 16 | | | 13 | 13 | 14 | 15 | 15 | 15 | 14 |
| 3 | 16 | 15 | 15 | 17 | 16 | 16 | 16 | | | | | | | | | | | 13 | 13 | 14 | 15 | 15 | 15 | 16 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | 43. |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | 16. |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | 16. |
| 7 | * | 21 | * | 9 | 10 | 11 | * | * | * | 11 | | | | | | * | * | * | * | * | * | * | * | * |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | 5. |
| 9 | | | | | | | | | | | | | | | | | | 18 | 18 | 18 | 18 | 20 | 19 | 19 |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | 19. |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 13 | 13 | 13 | 14 | 13 | 13 | 13 | 13 | 12 | 13 | 13 | 13 | 13 | 13 | 12 | 76 | 34 | | 14 | 13 | 13 | 12 | 15 | 13 |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 14. | 17. | 15. | 16. | 7. | 16. | 7. | 6. | 7. | 7. | 6. | 7. | 6. | 7. | 6. | 10. | 7. | 5. | 5. | 5. | 5. | 6. | 6. | 6. |

TOTAL NUMBER OF OBSERVATIONS = 4032 MEAN = 8.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF NITRIC OXIDE(UG/M*3)
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 12 | 19 | 13 | 13 | 13 | 12 | 12 | 9 | 11 | 11 | 10 | 10 | 10 | 19 | 15 | 18 | 17 | 13 | 14 | 16 | 16 | 17 | 13 | 15 | 15 |
| 2 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 3 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 4 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 5 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 6 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 7 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 8 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 9 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 10 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 11 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 12 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 13 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 14 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 15 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 16 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 17 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 18 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 19 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 20 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 21 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 22 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 23 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 24 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 25 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 26 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 27 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 28 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 29 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 30 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| 31 | 15 | 12 | 13 | 13 | 13 | 11 | 11 | 14 | 9 | 12 | 13 | 9 | 21 | 13 | 12 | 17 | 12 | 10 | 15 | 18 | 26 | 17 | 18 | 17 | 15 |
| MEAN | 2. | 2. | 2. | 1. | 2. | 2. | 2. | 2. | 3. | 2. | 2. | 2. | 2. | 3. | 2. | 2. | 3. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. |

TOTAL NUMBER OF OBSERVATIONS = 7872 MEAN = 2.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF NITRIC OXIDE(UG/M**3)
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|-----|-----|-----|-----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 100 | 124 | 110 | 119 | | 105 | 17 | 16 | 14 | 14 | 14 | 14 | 13 | 13 | 14 | 14 | 15 | * | | | * | * | * | * | 37 |
| 2 | 15 | 17 | 15 | 16 | 18 | 17 | 14 | 18 | 17 | 15 | 16 | 17 | 16 | 14 | 16 | | | 13 | 13 | 14 | 15 | 15 | 15 | 16 | 16 |
| 3 | 16 | 15 | 15 | 15 | 16 | 15 | 16 | | | | | | | | | | | | | | | | | | 16 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | * | 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3 |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | 18 | 18 | 18 | 18 | 20 | 19 | 19 | 19 |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 10. | 13. | 11. | 11. | 4. | 11. | 4. | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 2. | 3. | 3. | 3. | 3. | 4. | 4. | 4. | 4. | 4. |

TOTAL NUMBER OF OBSERVATIONS = 4046 MEAN = 5.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF NITROGEN DIOXIDE(UG/M**3)
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 9 | 10 | 9 | 9 | * | 9 | * | 10 | 10 | 10 | 10 | 10 | 10 | 9 | * | 9 | 11 | 12 | 11 | 14 | 10 | 12 | 9 | 9 | 10 |
| 2 | 11 | 9 | 10 | 9 | 10 | 9 | 9 | 13 | 12 | 11 | * | * | * | * | * | * | * | * | * | 9 | 10 | * | * | * | 9 |
| 3 | * | * | * | * | * | * | * | * | * | * | 40 | 34 | 34 | 30 | 25 | 35 | 24 | 39 | 39 | 36 | 34 | 35 | 30 | 36 | 31 |
| 4 | 32 | 37 | 37 | 33 | 32 | 31 | 23 | 37 | 51 | 42 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 14 |
| 5 | * | 37 | * | * | * | * | * | * | 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3 |
| 6 | * | * | * | * | * | * | * | * | 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3 |
| 7 | * | * | * | * | * | * | * | 10 | 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3 |
| 8 | * | * | * | * | * | * | * | * | 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 4 |
| 9 | * | * | * | * | * | * | * | 15 | 19 | 18 | 14 | 15 | 13 | 13 | 14 | 16 | 14 | 9 | 11 | 12 | 10 | 12 | 9 | 8 | |
| 10 | 14 | 12 | 13 | 13 | 13 | 13 | 16 | 15 | 19 | 16 | 15 | 17 | 15 | 13 | 14 | 20 | 21 | 13 | 14 | 12 | 16 | 14 | 13 | 15 | |
| 11 | 17 | 16 | 15 | 14 | 16 | 15 | 17 | 18 | 19 | 16 | 15 | 16 | 15 | 14 | 18 | 17 | 16 | 16 | 13 | 18 | 16 | 15 | 17 | 17 | |
| 12 | 17 | 16 | 15 | 14 | 15 | 16 | 16 | 16 | 17 | 15 | 16 | 16 | 18 | 14 | 16 | 15 | 15 | 15 | 16 | 16 | 15 | 16 | 15 | 16 | |
| 13 | 16 | 16 | 16 | 15 | 18 | 17 | 15 | 16 | 16 | 13 | 16 | 16 | 15 | 13 | 15 | 12 | 13 | 16 | 16 | 14 | 16 | 16 | 16 | 16 | |
| 14 | 16 | 15 | 14 | 15 | 14 | 16 | 15 | 17 | 17 | 16 | 16 | 16 | 14 | 13 | 13 | 12 | 13 | 15 | 18 | 13 | 15 | 16 | 15 | 16 | |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 13 |
| 16 | 10 | * | * | * | * | * | 15 | 9 | 9 | * | * | * | * | * | * | * | * | 10 | * | 12 | 10 | 13 | 11 | 11 | 7 |
| 17 | * | * | * | * | * | * | 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3 |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2 |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 9 | * | * | * | 5 |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2 |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2 |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2 |
| MEAN | 7. | 7. | 7. | 7. | 6. | 6. | 7. | 8. | 10. | 8. | 7. | 7. | 7. | 6. | 6. | 6. | 6. | 7. | 7. | 8. | 8. | 8. | 7. | 7. | 7. |

TOTAL NUMBER OF OBSERVATIONS = 7872 MEAN = 7.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF NITROGEN DIOXIDE(UG/M**3)
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 4. | 5. | 5. | 5. | 3. | 5. | 3. | 3. | 4. | 4. | 3. | 4. | 3. | 4. | 3. | 3. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. |

TOTAL NUMBER OF OBSERVATIONS = 4046 MEAN = 3.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF SULFUR DIOXIDE (UG/M*3)
TRAILER NO. - 28 PERIOD (12/ 1/74 TO 12/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | 24 MEAN |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| MEAN | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 3. | 3. | 2. | 2. | 2. | 2. | 1. | 1. | 2. | 2. | 1. | | |

TOTAL NUMBER OF OBSERVATIONS = 7698 MEAN = 1.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF SULFUR DIOXIDE (UG/M**3)
 TRAILER NO. - 21 PERIOD (10/174 TO 10/31/74)

DAY

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | 106 | 266 | * | * | * | * | * | * | * | * | * | * | 16. |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| MEAN | 1. | 1. | 1. | 2. | 3. | 5. | 2. | 2. | 1. | 1. | 1. | 1. | 4. | 11. | 1. | 1. | 2. | 1. | 1. | 1. | 1. | 3. | 4. | 5. | |

TOTAL NUMBER OF OBSERVATIONS = 8847 MEAN = 2.

* DENOTES A VALID SAMPLE BEYOND THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF SULFUR DIOXIDE (UG/M**3)
TRAILER NO. - 22 PERIOD (10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3. |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |

MEAN 1. 2.

TOTAL NUMBER OF OBSERVATIONS = 1087 MEAN = 1.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF SULFUR DIOXIDE (US/M**3)
TRAILER NO. - 23 PERIOD (10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|
| 1 | * | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 20 | * | * | * | * | 4. |
| 2 | * | * | 13 | * | * | * | * | * | * | 13 | * | * | * | * | * | * | * | * | 22 | * | * | * | * | * | 9. |
| 3 | * | 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 13 | * | * | * | * | 5. |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 13 | * | * | * | * | 0. |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 14 | * | * | * | * | 0. |
| 6 | 14 | * | 15 | * | * | 13 | 14 | 13 | 14 | 14 | 15 | * | * | * | 16 | * | 14 | 15 | 15 | 14 | 15 | 16 | 15 | 15. | |
| 7 | 15 | 16 | 13 | 13 | 13 | 13 | 14 | 13 | 14 | 14 | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | 8. |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2. |
| 11 | * | * | * | * | 17 | 16 | 17 | 16 | 16 | 16 | 16 | 16 | 20 | 20 | 15 | 18 | 18 | 18 | 21 | 18 | 16 | 13 | 16 | 18 | 15. |
| 12 | 17 | 17 | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 4. |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2. |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 39 | 38 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 15. |

MEAN 5. 0. 4. 5. 5. 5. 5. 5. 6. 5. 5. 6. 5. 4. 4. 6. 7. 7. 7. 9. 8. 6. 7. 6. 7. 6.

TOTAL NUMBER OF OBSERVATIONS = 3476 MEAN = 6.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

ANNUAL VARIATION OF SULFUR DIOXIDE (UG/M**3)
TRAILER NO. - 24 PERIOD (12/ 1/74 TO 12/31/74)

[illegible]

— 252 —

12

11 C-157

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND SPEED(MPH)
TRAILER NO. = 20 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 3 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 4 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 5 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 6 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 7 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 8 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 9 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 10 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 11 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 12 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 13 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 14 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 15 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 16 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 17 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 18 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 19 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 20 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 21 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 22 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 23 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 24 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 25 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 26 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 27 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 28 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 29 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 30 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 31 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| MEAN | 2. | 2. | 2. | 2. | 2. | 1. | 1. | 2. | 2. | 2. | 2. | 3. | 4. | 4. | 4. | 3. | 3. | 3. | 1. | 1. | 1. | 1. | 1. | 1. | 1. |

TOTAL NUMBER OF OBSERVATIONS = 8659 MEAN = 2.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND SPEED(MPH)
TRAILER NO. = 21 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 6 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 3 | 4 | 5 | 6 | 6 | 5 | 6 | 4 | 2 | 3 | 5 | 4 | 4 | 2 | 4 |
| 2 | 4 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 5 | 4 | 5 | 5 | 5 | 4 | 4 |
| 3 | 5 | 5 | 4 | 6 | 5 | 0 | 1 | 1 | 4 | 0 | 7 | 10 | 12 | 14 | 17 | 14 | 14 | 11 | 14 | 6 | 6 | 7 | 6 | 6 | 6 |
| 4 | 8 | 3 | 6 | 4 | 5 | 1 | 2 | 3 | 0 | 7 | 2 | 9 | 5 | 5 | 5 | 5 | 7 | 5 | 3 | 2 | 3 | 2 | 3 | 5 | 4 |
| 5 | 4 | 2 | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 5 | 3 | 4 | 6 | 4 | 5 | 4 | 4 | 0 | 1 | 3 | 4 | 3 | 3 | 4 |
| 6 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 5 | 6 | 9 | 7 | 2 | 2 | 4 | 5 | 5 | 3 | 3 |
| 7 | 3 | 0 | 1 | 2 | 1 | 1 | 4 | 3 | 3 | 1 | 2 | 3 | 5 | 5 | 5 | 6 | 5 | 7 | 4 | 2 | 4 | 3 | 3 | 4 | 4 |
| 8 | 3 | 2 | 0 | 1 | 0 | 1 | 2 | 0 | 3 | 1 | 3 | 1 | 0 | 0 | 3 | 7 | 5 | 4 | 3 | 2 | 3 | 3 | 5 | 2 | 2 |
| 9 | 3 | 2 | 0 | 1 | 0 | 1 | 2 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 3 | 5 | 5 | 3 | 2 | 1 | 4 | 2 | 0 | 1 | 1 |
| 10 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11 | 4 | 2 | 2 | 0 | 4 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 14 | 1 | 1 | 2 | 1 | 0 | 1 | 2 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 17 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 18 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 19 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 20 | 2 | 2 | 1 | 0 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 21 | 4 | 3 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 22 | 6 | 1 | 0 | 1 | 1 | 0 | 2 | 7 | 0 | 6 | 8 | 11 | 12 | 11 | 12 | 11 | 8 | 13 | 5 | 7 | 6 | 3 | 3 | 3 | 3 |
| 23 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 0 | 0 | 1 | 3 | 9 | 11 | 5 | 4 | 1 | 0 | 2 | 1 | 2 | 2 | 4 |
| 24 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 25 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 3 | 6 | 9 | 8 | 6 | 4 | 1 | 2 | 0 | 1 | 2 | 2 |
| 26 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 27 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 6 | 5 | 7 | 1 | 7 | 6 | 6 | 3 | 1 | 1 | 2 | 2 | 3 | 3 |
| 28 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 9 | 7 | 5 | 6 | 5 | 8 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 29 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 1 | 3 | 1 | 2 | 4 | 4 | 4 | 3 | 3 | 5 | 4 | 5 |
| 30 | 4 | 3 | 2 | 3 | 3 | 4 | 3 | 1 | 4 | 5 | 3 | 4 | 3 | 9 | 4 | 5 | 7 | 5 | 4 | 4 | 4 | 4 | 3 | 5 | 5 |
| 31 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 6 | 4 | 7 | 6 | 7 | 5 | 6 | 6 | 2 | 1 | 1 | 3 | 4 | 3 | 4 | 5 | 5 |
| MEAN | 3. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 3. | 4. | 5. | 5. | 6. | 6. | 6. | 6. | 6. | 4. | 3. | 3. | 3. | 3. | 3. | 3. |

TOTAL NUMBER OF OBSERVATIONS = 7220 MEAN = 3.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND SPEED(MPH)
TRAILER NO. * 22 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | 11 | 12 | 12 | 12 | 11 | 11 | 10 | 10 | 8 | 7 | | | 5 | 6 | 5 | 7 | 7 | 6 | 2 | 3 | 5 | 4 | 6 | 10 | 8 |
| 2 | 10 | 10 | 10 | 10 | 11 | 9 | 9 | 9 | 9 | 9 | 5 | 4 | 7 | 7 | 5 | 6 | 5 | 2 | 3 | 3 | 4 | 9 | 8 | 7 | 8 |
| 3 | 9 | 8 | 8 | 9 | 8 | 10 | 10 | 9 | 8 | 6 | 8 | 6 | 8 | 9 | 9 | 14 | 7 | 3 | 5 | 3 | 3 | 4 | 7 | 5 | 8 |
| 4 | 2 | 0 | 4 | 5 | 3 | 0 | 0 | 1 | 0 | 4 | 7 | 10 | 6 | 6 | 5 | 6 | 4 | 3 | 1 | 2 | 1 | 3 | | | 4 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 3 | 5 | 5 | 1 | 5 | 3 | 1 | 6 | 2 | 3 | 0 | 4 | 7 | 0 | 5 | 2 | 0 | 0 | 2 | 1 | 3 | 2 | 0 | 1 | 3 |
| 24 | 3 | 5 | 5 | 7 | 6 | 9 | 6 | 7 | 8 | 7 | 2 | 7 | 5 | 2 | 5 | 3 | 5 | 2 | 1 | 1 | 3 | 1 | 2 | 3 | 6 |
| 25 | 5 | 8 | 2 | 6 | 4 | 3 | 5 | 7 | 4 | 7 | 3 | 4 | 6 | 8 | 7 | 5 | 7 | 2 | 1 | 2 | 0 | 7 | 6 | 8 | 5 |
| 26 | 5 | 5 | 5 | 1 | 3 | 2 | 1 | 3 | 3 | 0 | 0 | 2 | 4 | 4 | 6 | 1 | 0 | 4 | 6 | 3 | 3 | 5 | 6 | 2 | 5 |
| 27 | 5 | 6 | 7 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 5 | 2 | 4 | 4 | 3 | 1 | 3 | 2 | 0 | 6 | 4 | 4 |
| 28 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 5 | 2 | 4 | 4 | 4 | 5 | 3 | 3 | 2 | 4 | | 1 | 1 | 3 | 3 | 2 | 3 | 3 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 6. | 6. | 7. | 6. | 6. | 5. | 5. | 6. | 5. | 5. | 4. | 5. | 6. | 6. | 5. | 6. | 5. | 4. | 3. | 2. | 3. | 4. | 5. | 6. | |

TOTAL NUMBER OF OBSERVATIONS = 3531 MEAN = 5.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND SPEED(MPH)
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | | | 3 | 3 | 3 | 1 | 2 |
| 2 | 1 | 0 | 1 | 2 | 2 | 2 | 3 | 1 | 1 | 1 | 0 | 1 | 3 | 2 | 1 | | | 9 | 7 | | 3 | 2 | 2 | 2 | 3 |
| 3 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 4 | 0 | 0 | 8 | 7 | 5 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 5 | 8 | 6 | 5 | 2 | 4 | 1 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 3 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 1 | 0 | 0 | 2 | 1 | 1 | 3 | 1 | 1 | 3 | 3 | 6 | 9 | 7 | 8 | 8 | 8 | 5 | 2 | 1 | 2 | 2 | 2 | 2 | 3 |
| 20 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 6 | 10 | 13 | 13 | 13 | 13 | 10 | 5 | 5 | 2 | 2 | 3 | 3 | 4 |
| 21 | 2 | 4 | 6 | 7 | 11 | 15 | 13 | 10 | 14 | 13 | 17 | 21 | 13 | 12 | 14 | 13 | 13 | 15 | 4 | 4 | 5 | 7 | 7 | 7 | 6 |
| 22 | 5 | 4 | 4 | 4 | 8 | 6 | 2 | 2 | 3 | 2 | 1 | 2 | 5 | 4 | 4 | 3 | 2 | 3 | 5 | 2 | 10 | 7 | 4 | 4 | 11 |
| 23 | 5 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 2 | 4 | 2 | 2 |

MEAN

TOTAL NUMBER OF OBSERVATIONS = 4749 MEAN = 2.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND SPEED(MPH)
TRAILER NO. - 24 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

DIURNAL VARIATION OF RELATIVE HUMIDITY
TRAILER NO. = 20 PERIOD(10/ 1/74 TO 10/31/74)

| | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 31 | 33 | 34 | 36 | 37 | 39 | 41 | 43 | 42 | 36 | 29 | 23 | 21 | 20 | 19 | 19 | 18 | 18 | 19 | 19 | 21 | 24 | 26 | 28 |
| 2 | 31 | 33 | 35 | 37 | 39 | 42 | 45 | 46 | 44 | 37 | 17 | 17 | 17 | 12 | 12 | 11 | 10 | 10 | 10 | 10 | 12 | 14 | 16 | 18 |
| 3 | 19 | 21 | 22 | 23 | 24 | 24 | 26 | 27 | 27 | 23 | 17 | 17 | 17 | 17 | 24 | 52 | 50 | 79 | 81 | 82 | 80 | 85 | 76 | 73 |
| 4 | 76 | 76 | 72 | 71 | 73 | 80 | 85 | 89 | 88 | 74 | 53 | 47 | 42 | 39 | 37 | 35 | 34 | 34 | 35 | 42 | 52 | 62 | 88 | 94 |
| 5 | 95 | 98 | 100 | 100 | 99 | 96 | 96 | 96 | 93 | 91 | 88 | 89 | 87 | 83 | 80 | 73 | 66 | 61 | 63 | 62 | 93 | 97 | 99 | 100 |
| 6 | 100 | 100 | 100 | 100 | 100 | 96 | 91 | 100 | 100 | 96 | 76 | 65 | 57 | 46 | 38 | 33 | 27 | 27 | 29 | 38 | 56 | 64 | 70 | 77 |
| 7 | 81 | 85 | 88 | 89 | 90 | 90 | 92 | 91 | 84 | 61 | 47 | 32 | 28 | 24 | 22 | 21 | 21 | 21 | 20 | 22 | 34 | 51 | 60 | 68 |
| 8 | 71 | 70 | 75 | 76 | 79 | 80 | 82 | 83 | 73 | 53 | 39 | 29 | 21 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 29 | 40 | 51 | 59 |
| 9 | 62 | 67 | 63 | 67 | 70 | 70 | 67 | 64 | 57 | 45 | 36 | 33 | 31 | 31 | 30 | | | 20 | 22 | 27 | 34 | 50 | 60 | 62 |
| 10 | 65 | 66 | 69 | 73 | 74 | 79 | 78 | 76 | 67 | 58 | 41 | 35 | 32 | 31 | 30 | 26 | 26 | 28 | 32 | 44 | 56 | 64 | 65 | 65 |
| 11 | 70 | 76 | 81 | 84 | 85 | 87 | 91 | 89 | 90 | 81 | 84 | 75 | 64 | 52 | 72 | 90 | 94 | 95 | 90 | 88 | 96 | 97 | 99 | 100 |
| 12 | 90 | 100 | 100 | 100 | 100 | 99 | 98 | 97 | 98 | 97 | 87 | 81 | 78 | 76 | 73 | 68 | 64 | 63 | 68 | 81 | 86 | 90 | 91 | 98 |
| 13 | 93 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98 | 89 | 71 | 55 | 37 | 31 | 29 | 26 | 25 | 24 | 26 | 50 | 64 | 74 | 77 | 80 |
| 14 | 84 | 87 | 94 | 95 | 95 | 96 | 98 | 97 | 92 | 78 | 62 | 55 | 48 | 36 | 29 | 25 | 23 | 23 | 23 | 32 | 51 | 60 | 68 | 70 |
| 15 | 74 | 74 | 75 | 76 | 77 | 81 | 80 | 81 | 74 | 55 | 41 | 35 | 26 | 21 | 19 | 18 | 17 | 17 | 28 | 41 | 48 | 54 | 59 | 64 |
| 16 | 63 | 69 | 69 | 69 | 71 | 70 | 66 | 55 | 39 | 27 | 22 | 19 | 18 | 18 | 18 | 17 | 18 | 26 | 37 | 47 | 53 | 56 | 60 | 64 |
| 17 | 67 | 69 | 69 | 74 | 70 | 78 | 75 | 58 | 42 | 29 | 24 | 21 | 19 | 17 | 17 | 16 | 16 | 22 | 33 | 42 | 49 | 57 | 60 | 63 |
| 18 | 66 | 68 | 71 | 73 | 73 | 77 | 72 | 58 | 42 | 32 | 24 | 21 | 19 | 21 | 17 | 17 | 16 | 22 | 33 | 42 | 49 | 57 | 60 | 63 |
| 19 | 54 | 59 | 60 | 60 | 64 | 66 | 68 | 70 | 62 | 47 | 35 | 28 | 19 | 17 | 16 | 15 | 14 | 14 | 15 | 19 | 22 | 27 | 35 | 42 |
| 20 | 46 | 51 | 53 | 54 | 56 | 59 | 61 | 64 | 56 | 44 | 31 | 21 | 19 | 17 | 17 | 16 | 16 | 16 | 17 | 21 | 26 | 31 | 36 | 41 |
| 21 | 44 | 43 | 47 | 48 | 47 | 46 | 39 | 39 | 37 | 32 | 32 | 42 | 43 | 43 | 33 | 31 | 30 | 63 | 83 | 89 | 86 | 86 | 92 | 95 |
| 22 | 95 | 94 | 95 | 94 | 91 | 94 | 95 | 97 | 95 | 92 | 88 | 79 | 56 | 44 | 38 | 38 | 44 | 51 | 61 | 71 | 78 | 85 | 90 | 94 |
| 23 | 95 | 95 | 96 | 94 | 92 | 88 | 89 | 89 | 83 | 78 | 67 | 53 | 52 | 56 | 68 | 60 | 59 | 64 | 76 | 88 | 91 | 92 | 96 | 97 |
| 24 | 95 | 96 | 95 | 97 | 97 | 97 | 98 | 97 | 93 | 81 | 75 | 72 | 59 | 57 | 55 | 58 | 55 | 59 | 70 | 75 | 82 | 87 | 93 | 97 |
| 25 | 98 | 98 | 99 | 99 | 100 | 100 | 100 | 100 | 98 | 97 | 94 | | 81 | 70 | 59 | 50 | 47 | 51 | 62 | 81 | 88 | 93 | 93 | 95 |
| 26 | 96 | 96 | 97 | 96 | 96 | 96 | 94 | 94 | 92 | 81 | 63 | 41 | 31 | 28 | 28 | 28 | 26 | 28 | 38 | 58 | 69 | 72 | 75 | 79 |
| 27 | 60 | 60 | 63 | 84 | 87 | 90 | 89 | 91 | 85 | 70 | 63 | 52 | 44 | 38 | 37 | 38 | 37 | 51 | 56 | 63 | 63 | 70 | 76 | 80 |
| 28 | 68 | 60 | 90 | 91 | 89 | 87 | 85 | 84 | 85 | 79 | 68 | 60 | 48 | 44 | 40 | 41 | 52 | 71 | 74 | 83 | 85 | 85 | 81 | 79 |
| 29 | 75 | 81 | 82 | 86 | 90 | 91 | 92 | 92 | 92 | 87 | 82 | | 87 | 86 | 87 | 91 | | | | | | | | |
| 30 | 92 | 94 | 94 | 93 | 96 | 95 | 95 | 95 | 94 | 91 | 88 | 76 | 64 | 56 | 53 | 48 | 54 | 68 | 72 | 82 | 86 | 88 | 90 | 87 |
| 31 | 81 | 82 | 76 | 73 | 72 | 75 | 75 | 76 | 74 | 71 | 69 | 66 | | 66 | 64 | 64 | 66 | 68 | 73 | 76 | 84 | 85 | 86 | 88 |
| MEAN | 74. | 76. | 77. | 78. | 79. | 80. | 80. | 79. | 75. | 66. | 58. | 49. | 44. | 40. | 39. | 39. | 36. | 41. | 45. | 54. | 61. | 66. | 71. | 74. |

TOTAL NUMBER OF OBSERVATIONS = 8659 MEAN = 62.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF RELATIVE HUMIDITY
TRAILER NO. 21 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 28 | 29 | 31 | 34 | 38 | 40 | 47 | 54 | 50 | 39 | 30 | 23 | 18 | 16 | 15 | 14 | 14 | 13 | 14 | 15 | 18 | 21 | 24 | 26 |
| 2 | 28 | 30 | 34 | 38 | 44 | 48 | 49 | 56 | 53 | 43 | 33 | 23 | 16 | 15 | 14 | 13 | 13 | 12 | 12 | 13 | 14 | 17 | 19 | 21 |
| 3 | 23 | 25 | 26 | 29 | 33 | 40 | 40 | 47 | 46 | 40 | 27 | 20 | 19 | 19 | 27 | 50 | 55 | 82 | 84 | 81 | 86 | 81 | 75 | 74 |
| 4 | 74 | 75 | 76 | 73 | 75 | 76 | 86 | 90 | 89 | 79 | 56 | 46 | 41 | 38 | 35 | 36 | 34 | 35 | 37 | 52 | 60 | 65 | 88 | 90 |
| 5 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 89 | 90 | 88 | 83 | 76 | 71 | 65 | 62 | 64 | 65 | 82 | 90 | 90 | 90 | 84 |
| 6 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 87 | 66 | 55 | 41 | 40 | 31 | 28 | 27 | 29 | 36 | 52 | 62 | 70 | 75 |
| 7 | 74 | 74 | 78 | 83 | 84 | 85 | 81 | 88 | 80 | 62 | 44 | 32 | 24 | 19 | 19 | 16 | 17 | 17 | 19 | 22 | 30 | 41 | 54 | 65 |
| 8 | 83 | 86 | 88 | 89 | 89 | 89 | 89 | 89 | 86 | 72 | 50 | 35 | 29 | 23 | 21 | 20 | 20 | 20 | 20 | 24 | 33 | 48 | 64 | 72 |
| 9 | 66 | 68 | 69 | 69 | 70 | 73 | 71 | 66 | 62 | 54 | | | | | | 22 | 19 | 19 | 19 | 24 | 33 | 54 | 60 | 64 |
| 10 | 70 | 72 | 71 | 74 | 78 | 79 | 78 | 78 | 74 | 70 | 54 | 39 | 31 | 31 | 30 | 28 | 25 | 27 | 32 | 54 | 65 | 71 | 68 | 69 |
| 11 | 76 | 78 | 83 | 85 | 86 | 85 | 86 | 85 | 86 | 86 | 81 | 67 | 58 | 51 | 79 | 86 | 86 | 86 | 86 | 85 | 86 | 85 | 85 | 85 |
| 12 | 85 | 85 | 85 | 85 | 86 | 85 | 85 | 85 | 85 | 85 | 78 | 74 | 73 | 69 | 66 | 60 | 57 | 54 | 61 | 77 | 81 | 85 | 85 | 85 |
| 13 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 83 | 73 | 50 | 35 | 30 | 27 | 25 | 22 | 22 | 26 | 49 | 70 | 81 | 82 | 85 |
| 14 | 85 | 86 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 76 | 61 | | | | | | | | | | | | | |
| 15 | 74 | 81 | 84 | 85 | 85 | 85 | 85 | 85 | 84 | 72 | 50 | 35 | 24 | 17 | 15 | 13 | 12 | 12 | 13 | 19 | 33 | 54 | 60 | 60 |
| 16 | 60 | 72 | 79 | 83 | 84 | 80 | 84 | 85 | 82 | 61 | 37 | 26 | 19 | 15 | 14 | 13 | 12 | 12 | 14 | 19 | 35 | 53 | 61 | 65 |
| 17 | 66 | 70 | 73 | 76 | 80 | 84 | 85 | 84 | 78 | 60 | 40 | 26 | 20 | 17 | 15 | 13 | 13 | 13 | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 60 | 63 | 67 | 75 | 80 | 80 | 81 | 84 | 77 | 59 | | 29 | 20 | 15 | 13 | 12 | 10 | 10 | 11 | 16 | 22 | 33 | 40 | 59 |
| 20 | 47 | 53 | 57 | 62 | 63 | 63 | 63 | 63 | 59 | 48 | 34 | 21 | 15 | 13 | 11 | 10 | 10 | 10 | 10 | 15 | | 35 | 43 | 44 |
| 21 | 56 | 51 | 54 | 55 | 54 | 57 | 60 | 62 | 55 | 37 | 33 | 38 | 37 | 41 | 33 | 28 | 25 | 41 | 73 | 81 | 84 | 84 | 85 | 50 |
| 22 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 84 | 80 | 63 | 45 | 38 | 37 | 39 | 54 | 67 | 73 | 76 | 82 | 85 | 85 |
| 23 | 84 | 85 | 85 | 84 | 85 | 85 | 84 | 85 | 85 | 85 | 80 | 68 | 50 | 52 | 68 | 64 | 58 | 65 | 71 | 83 | 85 | 84 | 84 | 85 |
| 24 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 83 | 75 | 61 | 57 | 55 | 55 | 54 | 58 | 68 | 81 | 81 | 84 | 85 | 85 |
| 25 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 80 | 67 | 55 | 48 | 47 | 50 | 65 | 77 | 84 | 85 | 84 | 85 |
| 26 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 79 | 65 | 42 | 27 | 26 | 26 | 35 | 34 | 44 | 65 | 74 | 78 | 83 | 82 |
| 27 | 83 | 84 | 84 | 85 | 85 | 85 | 85 | 85 | 85 | 83 | 66 | 52 | 42 | 37 | 38 | 38 | 41 | 50 | 58 | 60 | 66 | 71 | 74 | 81 |
| 28 | 83 | 85 | 85 | | | | | | | | | | | | 36 | 43 | 52 | 76 | 84 | 85 | 85 | 85 | 84 | 74 |
| 29 | 80 | 79 | 76 | 85 | 85 | 85 | 85 | 85 | 85 | 84 | 82 | 80 | 83 | 84 | 84 | 85 | 85 | 82 | 85 | 85 | 85 | 85 | 85 | 84 |
| 30 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 84 | 71 | 68 | 65 | 53 | 46 | 43 | 50 | 66 | 65 | 77 | 83 | 84 | 85 | 83 | 80 |
| 31 | 78 | 76 | 78 | 76 | 76 | 77 | 75 | 72 | 68 | 65 | 63 | 63 | 62 | 58 | 59 | 63 | 64 | 70 | 74 | 77 | 79 | 82 | 83 | 84 |
| MEAN | 72. | 74. | 75. | 76. | 77. | 78. | 79. | 80. | 78. | 71. | 61. | 51. | 43. | 38. | 38. | 37. | 38. | 41. | 48. | 55. | 63. | 67. | 71. | 73. |

TOTAL NUMBER OF OBSERVATIONS = 8146 MEAN = 62.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF RELATIVE HUMIDITY
TRAILER NO. 722 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
| 1 | 31 | 32 | 34 | 36 | 38 | 39 | 40 | 41 | 41 | 37 | | | 27 | 21 | 16 | 15 | 15 | 15 | 15 | 16 | 18 | 19 | 20 | 22 | 27 |
| 2 | 23 | 25 | 27 | 29 | 30 | 32 | 34 | 35 | 34 | 30 | 24 | 18 | 16 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 15 | 16 | 18 | 19 | 22 |
| 3 | 20 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 28 | 26 | 21 | 20 | 21 | 20 | 26 | 50 | 55 | 86 | 92 | 91 | 96 | 94 | 83 | 80 | 46 |
| 4 | 84 | 90 | 84 | 77 | 78 | 85 | 92 | 92 | 88 | 70 | 54 | 47 | 48 | 46 | 44 | 40 | 39 | 37 | 37 | 49 | 55 | 65 | | | 64 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 100 | 99 | 98 | 99 | 100 | 100 | 100 | 100 | 99 | 97 | 80 | 59 | 56 | 57 | 59 | 63 | 64 | 67 | 71 | 93 | 99 | 98 | 99 | 100 | 77 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95 | 70 | 70 | 76 | 63 | 59 | 62 | 69 | 74 | 91 | 96 | 96 | 100 | 100 | 88 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 98 | 98 | 97 | 98 | 97 | 96 | 96 | 97 | 94 | 84 | 69 | 42 | 35 | 32 | 29 | 28 | 29 | 33 | 45 | 60 | 65 | 71 | 74 | 78 | 69 |
| 27 | 81 | 82 | 85 | 88 | 90 | 91 | 90 | 91 | 86 | 74 | 60 | 50 | 42 | 42 | 42 | 43 | 43 | 53 | 61 | 67 | 73 | 77 | 83 | 95 | 71 |
| 28 | 97 | 95 | 96 | 95 | 94 | 94 | 92 | 93 | 93 | 89 | 77 | 69 | 56 | 50 | 46 | 43 | 51 | 71 | 83 | 90 | 90 | 90 | 89 | 87 | 81 |
| 29 | 92 | 88 | 87 | 91 | 93 | 88 | 92 | 95 | 95 | 92 | 87 | 87 | 93 | 96 | 99 | 100 | 100 | 97 | 86 | 94 | 99 | 99 | 98 | 97 | 94 |
| 30 | 99 | 96 | 96 | 98 | 99 | 97 | 97 | 98 | 98 | 95 | 85 | 68 | 60 | 57 | 55 | 61 | 81 | 77 | 86 | 85 | 89 | 91 | 90 | 83 | 86 |
| 31 | 83 | 77 | 76 | 76 | 79 | 79 | 79 | 80 | 76 | 74 | 72 | 72 | 72 | 72 | 72 | 73 | 75 | 79 | 83 | 90 | 92 | 95 | 98 | 99 | 81 |
| MEAN | 76. | 75. | 76. | 76. | 77. | 78. | 79. | 80. | 78. | 73. | 66. | 58. | 54. | 52. | 49. | 50. | 52. | 58. | 63. | 72. | 76. | 79. | 80. | 80. | 60. |

TOTAL NUMBER OF OBSERVATIONS = 3531 MEAN = 69.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF RELATIVE HUMIDITY
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 21 | 22 | 22 | 22 | | 24 | 24 | 23 | 20 | 19 | 18 | 18 | 19 | 19 | 18 | 18 | 37 | 38 | 41 | 46 | 50 | 21 | 21 | 22 |
| 2 | 23 | 23 | 22 | 23 | 24 | 24 | 23 | 25 | | 22 | 20 | 20 | 20 | 20 | 20 | | | 19 | 17 | 19 | 19 | 20 | 19 | 21 |
| 3 | 21 | 20 | 22 | 23 | 23 | 24 | 23 | | | | | | | | | | | | | | | | | |
| 4 | 83 | 85 | 86 | 89 | 90 | 91 | 91 | 93 | 92 | 92 | 91 | 92 | 44 | 90 | 87 | 35 | 37 | 38 | 41 | 46 | 50 | 64 | 77 | 81 |
| 5 | 92 | | | | | | | | | | | | | | | 83 | 73 | 67 | 71 | 79 | 84 | 86 | 88 | 89 |
| 6 | 52 | 55 | 54 | 58 | 61 | 61 | 62 | 61 | 52 | 38 | 30 | 27 | 25 | 25 | 30 | 32 | 30 | 32 | 35 | 42 | 45 | 47 | 48 | 42 |
| 7 | 39 | 40 | 41 | 41 | 42 | 43 | 44 | 44 | 39 | 32 | 26 | 21 | 20 | 20 | 19 | 19 | 20 | 21 | 22 | 25 | 29 | 32 | 34 | 36 |
| 8 | 37 | 37 | 38 | 38 | 40 | 40 | 41 | 38 | 37 | 34 | 34 | 31 | 30 | 29 | 29 | 25 | 24 | 25 | 28 | 31 | 37 | 39 | 41 | 40 |
| 9 | 40 | 40 | 41 | 42 | 43 | 46 | 47 | 47 | 49 | 44 | 34 | 34 | 30 | 29 | 29 | 25 | 25 | 30 | 34 | 37 | 39 | 37 | 38 | 43 |
| 10 | 50 | 58 | 62 | 64 | 68 | 73 | 79 | 80 | 79 | 70 | 58 | 59 | 52 | 46 | 54 | 69 | 77 | 82 | 84 | 85 | 86 | 87 | 88 | 88 |
| 11 | 69 | 69 | 90 | 90 | 90 | 91 | | | 89 | 79 | 59 | 45 | 35 | 78 | 72 | 69 | 65 | 67 | 71 | 74 | 77 | 79 | 80 | 84 |
| 12 | 87 | 88 | 89 | 89 | 90 | 90 | 90 | 90 | 86 | 81 | 51 | 41 | 39 | 32 | 29 | 28 | 27 | 28 | 32 | 40 | 46 | 48 | 53 | 52 |
| 13 | 53 | 53 | 56 | 61 | 67 | 71 | 80 | 86 | 81 | 62 | 51 | 41 | 39 | 31 | 26 | 24 | 25 | 25 | 28 | 33 | 35 | 37 | 41 | 43 |
| 14 | 44 | 43 | 43 | 44 | 44 | 44 | 44 | 44 | 40 | 33 | 26 | 23 | 23 | 20 | 20 | 22 | 21 | 22 | 24 | 26 | 30 | 31 | 32 | 33 |
| 15 | 34 | 34 | 35 | 37 | 38 | 37 | 39 | 37 | 36 | 31 | 25 | 23 | 23 | 20 | 20 | 22 | 21 | 22 | 24 | 28 | 29 | 29 | 29 | 30 |
| 16 | 30 | 30 | 30 | 30 | 34 | 36 | 34 | 35 | 34 | 30 | 27 | 28 | 27 | 26 | 25 | 24 | 24 | 24 | 26 | 28 | 30 | 31 | 31 | 31 |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 26 | 26 | 26 | 27 | 28 | 28 | 30 | 29 | 28 | 28 | 26 | 23 | 22 | 21 | 21 | 20 | 20 | 20 | 20 | 22 | 23 | 25 | 25 | 27 |
| 19 | 26 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 31 | 28 | 25 | 22 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 22 | 23 | 25 | 25 | 27 |
| 20 | 28 | 25 | 25 | 26 | 27 | 27 | 28 | 29 | 30 | 31 | 31 | 41 | 39 | 47 | 39 | 38 | 37 | 43 | 79 | 85 | 91 | 87 | 87 | 87 |
| 21 | 94 | 97 | 98 | 76 | 91 | 86 | 87 | 87 | 91 | 95 | 94 | 89 | 69 | 62 | 53 | 49 | 51 | 55 | 59 | 67 | 72 | 81 | 82 | 82 |
| 22 | 66 | 85 | 85 | 86 | 84 | 85 | 81 | 83 | 84 | 80 | 76 | 68 | 65 | 65 | | 71 | 68 | 68 | 70 | 81 | 87 | 88 | 88 | 89 |
| 23 | 89 | 88 | 89 | 88 | 88 | 89 | 89 | 88 | 90 | 88 | 83 | 77 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 84 | 81 | 80 | 77 | 77 | 74 | 76 | 77 | 75 | 73 | 63 | 51 | 46 | 43 | 39 | 60 | 58 | 57 | 63 | 71 | 78 | 80 | 81 | 82 |
| 26 | 68 | 69 | 69 | 72 | 72 | 73 | 74 | 75 | 74 | 68 | 62 | 57 | 51 | 50 | 47 | 49 | 49 | 55 | 59 | 62 | 65 | 61 | 63 | 64 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 78 | 83 | 83 | 81 | 80 | 78 | 78 | 81 | 83 | 84 | 80 | 81 | 85 | 85 | 85 | 87 | 91 | 93 | 94 | 91 | 93 | 73 | 72 | 74 |
| 29 | 87 | 86 | 88 | 89 | 92 | 90 | 89 | 89 | 87 | 88 | 88 | 82 | 79 | 76 | 71 | 67 | 68 | 82 | 82 | 83 | 84 | 84 | 84 | 84 |
| 30 | 83 | 82 | 81 | 83 | 82 | 82 | 82 | 82 | 81 | 79 | 79 | 79 | 80 | 80 | 79 | 79 | 80 | 81 | 83 | 83 | 83 | 84 | 85 | 84 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 57. | 57. | 57. | 58. | 61. | 60. | 60. | 61. | 60. | 56. | 51. | 49. | 45. | 45. | 43. | 44. | 43. | 44. | 49. | 52. | 54. | 55. | 55. | 58. |

TOTAL NUMBER OF OBSERVATIONS = 7168 MEAN = 53.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF RELATIVE HUMIDITY
TRAILER NO. - 24 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 57. | 57. | 58. | 59. | 59. | 60. | 61. | 62. | 61. | 60. | 57. | 53. | 51. | 49. | 47. | 51. | 50. | 51. | 53. | 55. | 57. | 59. | 60. | |
| TOTAL NUMBER OF OBSERVATIONS = 2407 MEAN = 56. | | | | | | | | | | | | | | | | | | | | | | | | |

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF TEMPERATURE(DEG F)
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | HOUR | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 35 | 34 | 33 | 33 | 31 | 30 | 29 | 29 | 36 | 46 | 58 | 64 | 66 | 67 | 68 | 68 | 68 | 67 | 64 | 53 | 46 | 42 | 38 | 37 | 48. |
| 2 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 30 | 38 | 49 | 64 | 64 | 66 | 71 | 70 | 70 | 71 | 69 | 66 | 57 | 49 | 43 | 40 | 38 | 47. |
| 3 | 38 | 37 | 37 | 37 | 38 | 37 | 36 | 38 | 46 | 57 | 64 | 64 | 66 | 65 | 56 | 52 | 53 | 46 | 45 | 45 | 45 | 44 | 46 | 45 | 48. |
| 4 | 44 | 45 | 46 | 47 | 45 | 43 | 41 | 40 | 41 | 47 | 51 | 51 | 52 | 54 | 54 | 56 | 56 | 55 | 54 | 50 | 47 | 45 | 41 | 38 | 48. |
| 5 | 36 | 33 | 29 | 28 | 29 | 30 | 31 | 32 | 34 | 36 | 36 | 36 | 37 | 38 | 40 | 43 | 45 | 46 | 44 | 38 | 33 | 29 | 27 | 25 | 35. |
| 6 | 25 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 24 | 30 | 37 | 41 | 45 | 49 | 52 | 53 | 54 | 53 | 51 | 45 | 41 | 38 | 35 | 32 | 36. |
| 7 | 30 | 28 | 27 | 25 | 25 | 25 | 24 | 24 | 29 | 40 | 47 | 55 | 58 | 60 | 61 | 61 | 62 | 61 | 58 | 50 | 39 | 38 | 35 | 32 | 42. |
| 8 | 31 | 30 | 28 | 27 | 26 | 25 | 24 | 23 | 30 | 42 | 52 | 59 | 62 | 63 | 64 | 65 | 66 | 64 | 60 | 49 | 44 | 37 | 35 | 34 | 44. |
| 9 | 33 | 32 | 34 | 32 | 32 | 32 | 34 | 37 | 42 | 50 | 59 | 60 | 62 | 61 | 62 | | | 60 | 59 | 50 | 46 | 42 | 40 | 39 | 46. |
| 10 | 37 | 36 | 35 | 34 | 34 | 31 | 31 | 34 | 39 | 46 | 55 | 57 | 59 | 59 | 60 | 62 | 61 | 59 | 54 | 46 | 42 | 39 | 38 | 37 | 46. |
| 11 | 34 | 33 | 31 | 29 | 31 | 31 | 29 | 32 | 34 | 38 | 41 | 45 | 48 | 52 | 42 | 39 | 39 | 39 | 39 | 38 | 35 | 33 | 32 | 30 | 37. |
| 12 | 30 | 30 | 30 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 36 | 38 | 39 | 41 | 43 | 45 | 47 | 48 | 46 | 44 | 43 | 41 | 39 | 34 | 33. |
| 13 | 32 | 30 | 26 | 26 | 26 | 26 | 25 | 25 | 28 | 35 | 43 | 48 | 51 | 52 | 53 | 54 | 55 | 55 | 49 | 40 | 37 | 33 | 31 | 30 | 39. |
| 14 | 28 | 27 | 23 | 22 | 22 | 21 | 19 | 18 | 23 | 31 | 38 | 42 | 46 | 49 | 50 | 51 | 52 | 51 | 47 | 36 | 30 | 30 | 27 | 26 | 34. |
| 15 | 25 | 24 | 23 | 23 | 22 | 21 | 21 | 21 | 25 | 35 | 46 | 50 | 56 | 58 | 59 | 60 | 61 | 59 | 44 | 36 | 34 | 32 | 30 | 29 | 38. |
| 16 | 28 | 26 | 26 | 26 | 25 | 26 | 28 | 36 | 47 | 56 | 59 | 61 | 62 | 63 | 64 | 64 | 58 | 45 | 43 | 40 | 37 | 35 | 34 | 32 | 43. |
| 17 | 31 | 30 | 30 | 27 | 26 | 26 | 29 | 38 | 49 | 57 | 61 | 64 | 66 | 68 | 69 | 68 | 63 | 50 | 44 | 41 | 39 | 36 | 35 | 33 | 45. |
| 18 | 32 | 32 | 30 | 30 | 29 | 28 | 30 | 39 | 50 | 56 | | | | 66 | | 70 | 70 | 69 | 61 | 49 | 45 | 40 | 38 | 35 | 45. |
| 19 | 34 | 32 | 32 | 31 | 29 | 28 | 28 | 27 | 33 | 44 | 53 | 63 | 68 | 68 | 69 | 69 | 68 | 67 | 58 | 49 | 45 | 41 | 38 | 37 | 47. |
| 20 | 35 | 34 | 34 | 33 | 32 | 32 | 31 | 31 | 36 | 45 | 58 | 64 | 66 | 67 | 67 | 67 | 66 | 65 | 58 | 48 | 44 | 41 | 40 | 39 | 48. |
| 21 | 39 | 39 | 37 | 37 | 37 | 40 | 45 | 44 | 51 | 54 | 54 | 51 | 53 | 55 | 58 | 58 | 57 | 45 | 42 | 41 | 41 | 40 | 39 | 37 | 46. |
| 22 | 36 | 35 | 35 | 36 | 37 | 35 | 34 | 33 | 35 | 36 | 39 | 44 | 51 | 54 | 56 | 55 | 53 | 51 | 49 | 47 | 45 | 43 | 42 | 41 | 43. |
| 23 | 41 | 39 | 38 | 38 | 39 | 39 | 38 | 38 | 40 | 43 | 47 | 51 | 51 | 49 | 47 | 48 | 49 | 47 | 44 | 40 | 40 | 39 | 38 | 38 | 43. |
| 24 | 38 | 38 | 39 | 38 | 39 | 38 | 37 | 37 | 39 | 44 | 45 | 46 | 49 | 49 | 49 | 49 | 50 | 45 | 44 | 43 | 41 | 36 | 33 | 31 | 42. |
| 25 | 29 | 28 | 27 | 27 | 28 | 28 | 27 | 27 | 29 | 32 | 35 | 35 | 42 | 45 | 48 | 52 | 53 | 51 | 46 | 38 | 35 | 32 | 30 | 29 | 36. |
| 26 | 28 | 27 | 26 | 26 | 25 | 25 | 25 | 25 | 27 | 35 | 45 | 54 | 55 | 56 | 56 | 54 | 56 | 54 | 49 | 42 | 38 | 36 | 34 | 32 | 39. |
| 27 | 31 | 32 | 30 | 29 | 28 | 27 | 27 | 26 | 29 | 37 | 41 | 47 | 51 | 52 | 52 | 52 | 51 | 48 | 46 | 45 | 44 | 42 | 40 | 40 | 40. |
| 28 | 39 | 36 | 37 | 36 | 36 | 37 | 37 | 37 | 38 | 40 | 42 | 45 | 48 | 48 | 49 | 48 | 45 | 41 | 39 | 35 | 35 | 35 | 35 | 36 | 40. |
| 29 | 38 | 37 | 37 | 34 | 33 | 33 | 33 | 33 | 34 | 35 | 37 | 45 | 36 | 34 | 33 | 32 | | | | | | | | | 35. |
| 30 | 29 | 26 | 25 | 24 | 22 | 21 | 21 | 21 | 21 | 24 | 27 | 31 | 34 | 35 | 36 | 35 | 34 | 32 | 30 | 26 | 25 | 24 | 23 | 25 | 28. |
| 31 | 28 | 28 | 29 | 30 | 30 | 29 | 29 | 29 | 29 | 31 | 32 | 33 | 34 | 35 | 35 | 36 | 36 | 36 | 36 | 35 | 34 | 33 | 34 | 33 | 32 |
| MEAN | 34. | 35. | 32. | 31. | 31. | 30. | 30. | 31. | 35. | 42. | 47. | 51. | 53. | 55. | 54. | 55. | 56. | 53. | 49. | 44. | 40. | 38. | 36. | 35. | |

TOTAL NUMBER OF OBSERVATIONS = 8663 MEAN = 41.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF TEMPERATURE(DEG F)
TRAILER NO. # 21 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 36 | 34 | 30 | 26 | 25 | 25 | 21 | 21 | 30 | 43 | 53 | 61 | 67 | 68 | 69 | 69 | 70 | 69 | 64 | 52 | 45 | 39 | 38 | 36 | 46 |
| 2 | 35 | 32 | 27 | 26 | 23 | 23 | 23 | 21 | 29 | 40 | 53 | 66 | 70 | 71 | 72 | 72 | 72 | 71 | 67 | 56 | 47 | 42 | 39 | 37 | 47 |
| 3 | 37 | 36 | 34 | 29 | 27 | 25 | 25 | 29 | 33 | 43 | 61 | 65 | 66 | 66 | 57 | 54 | 53 | 47 | 47 | 47 | 45 | 47 | 48 | 47 | 45 |
| 4 | 47 | 47 | 47 | 48 | 47 | 46 | 42 | 40 | 42 | 47 | 51 | 53 | 55 | 56 | 57 | 57 | 58 | 57 | 55 | 49 | 48 | 47 | 43 | 40 | 49 |
| 5 | 38 | 34 | 30 | 28 | 30 | 32 | 33 | 34 | 33 | 38 | 37 | 37 | 39 | 41 | 43 | 46 | 47 | 47 | 45 | 38 | 34 | 30 | 27 | 24 | 36 |
| 6 | 23 | 21 | 19 | 18 | 19 | 18 | 19 | 20 | 22 | 27 | 34 | 41 | 46 | 50 | 53 | 54 | 54 | 54 | 50 | 43 | 40 | 37 | 34 | 31 | 35 |
| 7 | 30 | 28 | 25 | 21 | 20 | 15 | 17 | 17 | 25 | 36 | 46 | 54 | 61 | 62 | 63 | 65 | 63 | 62 | 55 | 48 | 41 | 36 | 33 | 30 | 39 |
| 8 | 26 | 26 | 24 | 22 | 21 | 20 | 19 | 18 | 23 | 34 | 45 | 52 | 58 | 59 | 62 | 63 | 63 | 62 | 57 | 48 | 41 | 36 | 33 | 31 | 40 |
| 9 | 30 | 31 | 30 | 30 | 28 | 27 | 31 | 35 | 30 | 45 | | | | | | | | | 58 | 48 | 43 | 38 | 37 | 35 | 41 |
| 10 | 32 | 30 | 30 | 30 | 29 | 26 | 28 | 30 | 36 | 42 | 50 | 56 | 57 | 58 | 60 | 61 | 62 | 58 | 52 | 43 | 39 | 35 | 36 | 35 | 43 |
| 11 | 31 | 30 | 29 | 30 | 30 | 29 | 28 | 30 | 30 | 35 | 41 | 46 | 49 | 51 | 42 | 41 | 41 | 41 | 39 | 36 | 35 | 35 | 34 | 30 | 36 |
| 12 | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 31 | 30 | 34 | 36 | 38 | 41 | 41 | 44 | 46 | 47 | 48 | 46 | 43 | 41 | 40 | 35 | 36 | 37 |
| 13 | 30 | 27 | 25 | 24 | 25 | 25 | 25 | 22 | 24 | 32 | 41 | 47 | 51 | 52 | 52 | 55 | 57 | 54 | 49 | 39 | 35 | 30 | 30 | 33 | 37 |
| 14 | 25 | 25 | 21 | 20 | 20 | 19 | 17 | 15 | 22 | 30 | 36 | | | | | | | | | | | | | | 23 |
| 15 | 24 | 19 | 19 | 17 | 15 | 14 | 14 | 15 | 18 | 26 | 37 | 45 | 53 | 57 | 57 | 60 | 60 | 58 | 51 | 40 | 34 | 30 | 25 | 25 | 35 |
| 16 | 29 | 24 | 20 | 19 | 20 | 20 | 19 | 18 | 21 | 33 | 44 | 52 | 57 | 61 | 62 | 62 | 62 | 62 | 54 | 46 | 40 | 35 | 33 | 30 | 39 |
| 17 | 31 | 30 | 26 | 26 | 23 | 20 | 20 | 21 | 25 | 36 | 47 | 56 | 61 | 64 | 68 | 68 | 68 | 66 | | | | | | | 42 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 33 |
| 19 | 31 | 31 | 30 | 25 | 23 | 22 | 21 | 20 | 24 | 35 | | 56 | 66 | 68 | 69 | 69 | 68 | 68 | 60 | 47 | 42 | 38 | 38 | 32 | 33 |
| 20 | 30 | 28 | 32 | 29 | 31 | 31 | 30 | 30 | 34 | 42 | 55 | 63 | 66 | 68 | 68 | 68 | 67 | 63 | 56 | 46 | | | | | 43 |
| 21 | 37 | 37 | 36 | 36 | 35 | 34 | 33 | 34 | 40 | 55 | 53 | 52 | 55 | 55 | 57 | 59 | 57 | 50 | 44 | 41 | 41 | 40 | 36 | 35 | 44 |
| 22 | 36 | 36 | 36 | 36 | 35 | 34 | 32 | 32 | 35 | 35 | 37 | 41 | 49 | 54 | 56 | 56 | 53 | 50 | 47 | 46 | 46 | 43 | 41 | 41 | 42 |
| 23 | 41 | 40 | 38 | 36 | 37 | 38 | 40 | 37 | 36 | 36 | 42 | 47 | 52 | 50 | 46 | 46 | 47 | 46 | 45 | 41 | 40 | 40 | 38 | 35 | 42 |
| 24 | 35 | 36 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 41 | 45 | 46 | 50 | 49 | 50 | 51 | 47 | 44 | 40 | 41 | 36 | 33 | 33 | 40 |
| 25 | 28 | 26 | 25 | 25 | 25 | 25 | 25 | 25 | 26 | 30 | 31 | 36 | 40 | 45 | 51 | 52 | 52 | 51 | 44 | 39 | 36 | 31 | 29 | 26 | 35 |
| 26 | 25 | 25 | 23 | 21 | 20 | 20 | 20 | 20 | 22 | 28 | 36 | 43 | 54 | 57 | 57 | 56 | 54 | 52 | 48 | 41 | 36 | 35 | 32 | 30 | 36 |
| 27 | 30 | 30 | 30 | 28 | 25 | 25 | 25 | 23 | 25 | 29 | 39 | 47 | 52 | 52 | 52 | 52 | 51 | 48 | 47 | 47 | 44 | 41 | 41 | 39 | 39 |
| 28 | 37 | 36 | 36 | | | | | | | | | | | | | | | | 36 | 34 | 32 | 31 | 30 | | 38 |
| 29 | 37 | 37 | 36 | 34 | 30 | 32 | 32 | 34 | 35 | 36 | 37 | 40 | 37 | 37 | 36 | 32 | 31 | 32 | 33 | 33 | 32 | 31 | 31 | 30 | 34 |
| 30 | 27 | 25 | 25 | 23 | 21 | 21 | 21 | 20 | 26 | 30 | 30 | 34 | 36 | 36 | 35 | 35 | 32 | 30 | 27 | 25 | 25 | 25 | 25 | 27 | 28 |
| 31 | 29 | 30 | 28 | 28 | 30 | 29 | 30 | 31 | 30 | 32 | 35 | 36 | 36 | 36 | 36 | 36 | 38 | 37 | 37 | 36 | 35 | 31 | 35 | 34 | 34 |
| MEAN | 32. | 31. | 30. | 28. | 27. | 27. | 27. | 26. | 30. | 37. | 43. | 49. | 53. | 55. | 55. | 55. | 55. | 53. | 49. | 43. | 40. | 37. | 35. | 34. | |

TOTAL NUMBER OF OBSERVATIONS = 8157 MEAN = 39.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF TEMPERATURE(DEG F)
TRAILER NO. # 22 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | 38 | 36 | 35 | 34 | 33 | 33 | 32 | 32 | 38 | 47 | | | 63 | 69 | 69 | 69 | 70 | 67 | 62 | 53 | 49 | 45 | 43 | 41 | 48 |
| 2 | 39 | 37 | 36 | 35 | 35 | 34 | 34 | 35 | 40 | 50 | 63 | 69 | 70 | 71 | 71 | 72 | 72 | 71 | 66 | 61 | 52 | 47 | 44 | 43 | 52 |
| 3 | 41 | 40 | 41 | 41 | 40 | 40 | 41 | 42 | 49 | 59 | 66 | 66 | 68 | 67 | 58 | 55 | 55 | 49 | 47 | 47 | 45 | 45 | 48 | 47 | 50 |
| 4 | 46 | 44 | 47 | 50 | 49 | 47 | 45 | 44 | 46 | 51 | 54 | 55 | 54 | 55 | 56 | 58 | 58 | 58 | 55 | 50 | 49 | 49 | 47 | | 51 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 41 | 41 | 41 | 41 | 41 | 40 | 39 | 38 | 39 | 41 | 46 | 51 | 51 | 51 | 50 | 49 | 50 | 49 | 48 | 42 | 42 | 41 | 41 | 40 | 47 |
| 24 | 32 | 31 | 31 | 30 | 31 | 30 | 30 | 29 | 29 | 31 | 37 | 40 | 42 | 47 | 51 | 52 | 51 | 49 | 49 | 42 | 41 | 39 | 36 | 33 | 43 |
| 25 | 32 | 32 | 31 | 30 | 30 | 30 | 29 | 28 | 30 | 36 | 46 | 55 | 55 | 56 | 58 | 57 | 55 | 52 | 52 | 41 | 37 | 29 | 34 | 33 | 38 |
| 26 | 34 | 34 | 33 | 32 | 31 | 31 | 30 | 30 | 32 | 38 | 46 | 51 | 51 | 54 | 54 | 53 | 52 | 50 | 48 | 47 | 40 | 38 | 37 | 35 | 42 |
| 27 | 40 | 39 | 38 | 38 | 38 | 38 | 36 | 39 | 39 | 41 | 44 | 46 | 49 | 50 | 51 | 51 | 48 | 44 | 41 | 38 | 37 | 37 | 42 | 41 | 42 |
| 28 | 37 | 38 | 39 | 37 | 36 | 38 | 37 | 36 | 36 | 37 | 40 | 40 | 38 | 35 | 34 | 33 | 32 | 32 | 34 | 33 | 31 | 30 | 30 | 30 | 36 |
| 29 | 28 | 27 | 26 | 25 | 25 | 25 | 24 | 24 | 26 | 29 | 32 | 35 | 36 | 37 | 37 | 36 | 32 | 32 | 29 | 29 | 27 | 27 | 29 | 31 | 30 |
| 30 | 31 | 32 | 32 | 32 | 31 | 31 | 31 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 37 | 38 | 38 | 38 | 36 | 36 | 35 | 34 | 34 | 33 | 34 |
| 31 | 37 | 36 | 36 | 36 | 35 | 35 | 34 | 34 | 37 | 42 | 47 | 50 | 51 | 53 | 53 | 53 | 52 | 50 | 47 | 44 | 41 | 39 | 38 | 37 | |

TOTAL NUMBER OF OBSERVATIONS = 3531 MEAN = 43.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF TEMPERATURE(DEG F)
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 43 | 47 | 45 | 43 | | 40 | 42 | 53 | 62 | 72 | 75 | 76 | 76 | 76 | 74 | 72 | 69 | 63 | | | | | | |
| 2 | 46 | 45 | 42 | 45 | 43 | 43 | 39 | 43 | 52 | 63 | 72 | 76 | 77 | 78 | 79 | | | 70 | 60 | 56 | 51 | 49 | 43 | 47 |
| 3 | 46 | 44 | 46 | 46 | 46 | 46 | 43 | | | | | | | | | | | | | | 51 | 49 | 43 | 46 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 40 | 38 | 36 | 36 | 38 | 38 | 38 | 39 | 40 | 41 | 41 | 41 | 43 | | | 69 | 65 | 63 | 59 | 55 | 52 | 49 | 46 | 43 |
| 6 | 35 | | | | | | | | | | | | | 44 | 47 | 50 | 55 | 55 | 50 | 43 | 39 | 37 | 36 | 35 |
| 7 | 33 | 32 | 33 | 29 | 29 | 29 | 29 | 30 | 39 | 50 | 57 | 61 | 63 | 64 | 59 | 60 | 64 | 57 | 53 | 41 | 38 | 37 | 35 | 45 |
| 8 | 34 | 33 | 32 | 31 | 31 | 30 | 30 | 31 | 40 | 51 | 60 | 65 | 66 | 67 | 69 | 66 | 62 | 61 | 55 | 48 | 43 | 40 | 39 | 36 |
| 9 | 37 | 37 | 39 | 39 | 38 | 39 | 40 | 45 | 47 | 53 | 57 | 62 | 62 | 65 | 62 | 64 | 63 | 60 | 54 | 47 | 42 | 42 | 41 | 41 |
| 10 | 41 | 41 | 40 | 39 | 37 | 35 | 36 | 37 | 40 | 50 | 56 | 55 | | | | | 59 | 55 | 50 | 46 | 42 | 40 | 38 | 37 |
| 11 | 36 | 34 | 33 | 30 | 32 | 31 | 31 | 32 | 34 | 41 | 47 | 45 | 51 | 52 | 44 | 40 | 38 | 37 | 35 | 34 | 32 | 32 | 31 | 30 |
| 12 | 29 | 29 | 29 | 29 | 30 | 31 | | | | | | | | 53 | 58 | 59 | 60 | 58 | 55 | 53 | 52 | 50 | 47 | 43 |
| 13 | 41 | 40 | 39 | 37 | 37 | 37 | 37 | 38 | 42 | 53 | 61 | 65 | 69 | 70 | 71 | 72 | 71 | 67 | 59 | 50 | 45 | 44 | 42 | 42 |
| 14 | 42 | 41 | 39 | 35 | 33 | 30 | 28 | 29 | 38 | 49 | 56 | 30 | 65 | 68 | 69 | 69 | 66 | 62 | 53 | 46 | 44 | 42 | 38 | 34 |
| 15 | 30 | 30 | 29 | 28 | 28 | 28 | 28 | 28 | 35 | 46 | 54 | 58 | 78 | 80 | | 83 | 81 | 75 | 66 | 54 | 44 | 42 | 41 | 40 |
| 16 | 39 | 38 | 37 | 36 | 36 | 35 | 34 | 37 | 41 | 53 | 61 | | | | | | | | | | 42 | 42 | 41 | 41 |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 49 | 48 | 49 | 44 | 43 | 45 | 42 | 45 | 48 | 55 | 62 | 66 | 69 | 70 | 71 | 70 | 69 | 67 | 63 | 58 | 54 | 51 | 49 | 47 |
| 20 | 49 | 49 | 47 | 47 | 46 | 45 | 46 | 44 | 46 | 54 | 61 | 63 | 66 | 68 | 68 | 67 | 66 | 64 | 59 | 52 | 50 | 51 | 50 | 56 |
| 21 | 49 | 50 | 51 | 50 | 52 | 52 | 52 | 52 | 53 | 55 | 55 | 51 | 53 | 53 | 58 | 58 | 57 | 51 | 43 | 42 | 41 | 42 | 41 | 41 |
| 22 | 37 | 37 | 37 | 36 | 43 | 42 | 42 | 41 | 39 | 38 | 41 | 46 | 51 | 54 | 56 | 56 | 54 | 52 | 51 | 48 | 47 | 45 | 44 | 44 |
| 23 | 43 | 43 | 42 | 41 | 42 | 41 | 42 | 41 | 41 | 45 | 48 | 50 | 51 | 50 | | 49 | 49 | 48 | 47 | 40 | 40 | 40 | 40 | 39 |
| 24 | 39 | 40 | 40 | 40 | 40 | 38 | 38 | 38 | 39 | 40 | 44 | 46 | | | | | | | | | | | | 41 |
| 25 | | | | | | | | | | | | | | | | | 53 | 52 | 48 | 43 | 39 | 39 | 38 | 44 |
| 26 | 36 | 36 | 37 | 35 | 35 | 36 | 36 | 35 | 37 | 41 | 50 | 53 | 55 | 56 | 57 | 56 | 56 | 55 | 50 | 45 | 42 | 41 | 41 | 40 |
| 27 | 38 | 39 | 39 | 36 | 38 | 37 | 36 | 35 | 38 | 42 | 46 | 49 | 51 | 51 | 53 | 52 | 51 | 48 | 46 | 45 | 43 | | | 44 |
| 28 | | | | | | | | | | | | | | | | | | | 39 | 38 | 38 | 40 | | 39 |
| 29 | 38 | 37 | 36 | 37 | 37 | 38 | 37 | 36 | 36 | 36 | 38 | 39 | 37 | 36 | 34 | 33 | 31 | 31 | 31 | 33 | 32 | 31 | 31 | 31 |
| 30 | 30 | 29 | 28 | 27 | 24 | 26 | 27 | 27 | 27 | 28 | 29 | 32 | 34 | 35 | 35 | 36 | 34 | 32 | 30 | 29 | 29 | 29 | 29 | 30 |
| 31 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 32 | 32 | 33 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 35 | 35 | 34 |
| MEAN | 39. | 39. | 39. | 37. | 37. | 37. | 37. | 38. | 42. | 48. | 53. | 53. | 58. | 59. | 58. | 58. | 57. | 55. | 51. | 46. | 43. | 42. | 41. | 40. |

TOTAL NUMBER OF OBSERVATIONS = 6815 MEAN = 46.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF TEMPERATURE (DEG F)
TRAILER NO. - 24 PERIOD (10/ 1/74 TO 10/31/74)

HOUR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEA

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

MEAN 0.

DIURNAL VARIATION OF HYDROGEN SULFIDE(UG/M**3)
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

TOTAL NUMBER OF OBSERVATIONS = 8306 MEAN = 0.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF HYDROGEN SULFIDE (UG/M³)
TRAILER NO. = 21 PERIOD (10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 1. | 3. | 4. | 5. | 4. | 2. | 0. |

TOTAL NUMBER OF OBSERVATIONS = 8057 MEAN = 1.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF HYDROGEN SULFIDE(UG/M*3)
TRAILER NO. = 22 PERIOD(10/ 1/74 TO 10/31/74)

[illegible]

TOTAL NUMBER OF OBSERVATIONS = 3511 MEAN = 1.

♦ DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF HYDROGEN SULFIDE (UG/M**3)
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 13. |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2. |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 6. |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS = 4455 MEAN = 1.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF HYDROGEN SULFIDE(UG/M**3)
TRAILER NO. 24 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

TOTAL NUMBER OF OBSERVATIONS = 1468 MEAN = 0.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF TOTAL HYDROCARBONS (UG/M**3 X 10**-2)
TRAILER NO. - 20 PERIOD (10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 2 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 3 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 11 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 12 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 13 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 14 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 15 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 17 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 18 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 19 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 20 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 21 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 22 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 23 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 24 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 25 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 26 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 27 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 28 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 29 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 30 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| 31 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8. |
| MEAN | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. |

TOTAL NUMBER OF OBSERVATIONS = 3185 MEAN = 8.

DIURNAL VARIATION OF TOTAL HYDROCARBONS(UG/M**3 X 10**-2)
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEA |
| 1 | 172 | 181 | 178 | 186 | 189 | 189 | 189 | 178 | 180 | 183 | 196 | 198 | 198 | 201 | 194 | 201 | 192 | | | 144 | 164 | 176 | 185 | 185 |
| 2 | 185 | 182 | 159 | 185 | 172 | 191 | 154 | 165 | 165 | 177 | 171 | 171 | 177 | 169 | 186 | | | 139 | 155 | 168 | 169 | 170 | 161 | 158 |
| 3 | 183 | 175 | 169 | 169 | 176 | 169 | 157 | | | | | | | | | | | | | | | | | 173 |
| 4 | | | | | | | | | | | | 133 | | | | | 179 | 175 | | 183 | 181 | | 181 | 172 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | 45 | 39 | 38 | 47 | 43 |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | 43 |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 47 | 54 | 57 | | | | | | | | | | | | | | | | | 80 | 81 | 78 | 81 | 72 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | 53 |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 95 | 112 | 98 | | | | | | | | | | | | | | | | | | | | | 102 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | 185 | 46 | | 80 | 105 | 122 | 98 | 110 |
| 26 | 110 | 97 | 95 | 116 | 109 | 87 | 102 | 105 | 95 | 113 | 117 | 138 | 95 | 138 | 127 | 140 | 132 | 118 | 108 | 111 | 120 | 112 | 127 | 121 |
| 27 | 115 | 121 | 128 | 91 | 103 | 117 | 73 | 83 | 134 | 164 | 201 | 201 | 201 | 201 | 201 | 201 | 201 | 201 | 201 | 183 | 193 | | | 157 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 95 | 96 | 93 | 102 | 87 | 98 | 93 | 102 | 120 | 75 | 113 | 122 | 129 | 92 | 124 | 123 | 122 | 80 | 106 | 91 | 86 | 67 | 90 | 106 |
| 30 | 71 | 85 | 92 | 82 | 83 | 86 | 91 | 82 | 73 | 95 | 91 | 93 | 106 | 99 | 95 | 96 | 97 | 92 | 101 | 106 | 58 | 80 | 73 | 72 |
| 31 | 74 | 78 | 90 | 90 | 59 | 85 | 68 | 70 | 106 | 106 | 98 | 70 | 94 | 68 | 92 | 86 | 58 | 90 | 106 | 106 | 106 | 94 | 108 | 89 |

MEAN 115.120.116.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.

TOTAL NUMBER OF OBSERVATIONS = 2431 MEAN = 120.

DIURNAL VARIATION OF METHANE (UG/M*3 X 10**-2)
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | | | 6. |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. | 7. |

TOTAL NUMBER OF OBSERVATIONS = 1206 MEAN = 7.

JOURNAL VARIATION OF METHANE (UG/M**3 X 10**+2)
 TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 136 | 141 | 134 | 132 | | 141 | 140 | 142 | 135 | 143 | 144 | 141 | 141 | 140 | 132 | 134 | 140 | | | | | | | |
| 2 | 139 | 133 | 124 | 124 | 138 | 133 | 134 | 127 | 137 | 131 | 136 | 131 | 135 | 120 | 134 | | | 121 | 120 | 136 | 132 | 141 | 140 | 139. |
| 3 | 133 | 125 | 132 | 130 | 135 | 136 | 122 | | | | | | | | | | | | | | | | | 131. |
| 4 | | | | | | | | | | | | | 121 | | | | | 132 | 136 | 127 | 126 | | 122 | 127. |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | 44 | 38 | 37 | 42 | | 40. |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | 53. |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | 5 | | 7 | 7 | 7 | 7 | 7 |
| 20 | | | | | | | | | | | | | | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 21 | | | | | | | | | | | | | | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 22 | | | | | | | | | | | | | | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 23 | | | | | | | | | | | | | | | | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |

MEAN 40. 39. 42. 36. 32. 41. 39. 32. 32. 32. 33. 34. 33. 39. 32. 31. 25. 26. 21. 17. 23. 27. 27. 30. 26.

TOTAL NUMBER OF OBSERVATIONS = 3637 MEAN = 32.

DIURNAL VARIATION OF NON-METHANE HYDROCARBONS (UG/M**3 X 10**+2)
 TRAILER NO. - 20 PERIOD (10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

TOTAL NUMBER OF OBSERVATIONS = 1206 MEAN = 0.

CORPORATION
 JOURNAL VARIATION OF NON-METHANE HYDROCARBONS(UG/M**3 X 10**-2)
 TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | 24 MEAN |
|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | 33 | 39 | 43 | 53 | | 47 | 48 | 36 | 44 | 40 | 52 | 57 | 57 | 60 | 61 | 66 | 52 | | | | 5 | 22 | 36 | 45 | 46 |
| 2 | 45 | 45 | 34 | 60 | 34 | 57 | 29 | 37 | 28 | 45 | 34 | 40 | 42 | 48 | 52 | | 17 | 34 | 31 | 37 | 37 | 34 | 37 | 22 | 39 |
| 3 | 50 | 49 | 36 | 38 | 40 | 32 | 45 | | | | | | | | | | | | | 55 | 54 | | | 42 | 45 |
| 4 | | | | | | | | | | | | 11 | | | | | 47 | 39 | | | | | 58 | | 45 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 4 | | 2 |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | 10 |

TOTAL NUMBER OF OBSERVATIONS = 2146 MEAN = 81.

DIURNAL VARIATION OF CARBON MONOXIDE(UG/M**3 X 10**=2)
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|----|----|-----|----|-----|------|
| 1 | 13 | 14 | 13 | 13 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 13 | 14 | 14 | 13 | 14. |
| 2 | 13 | 13 | 13 | | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 14 | 14 | 14 | 14 | 13 | 13 | 14 | 14 | 13 | 13 | 14. |
| 3 | 16 | 17 | 16 | | 16 | 19 | 19 | 19 | 18 | 17 | 16 | 17 | 17 | 16 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 17. |
| 4 | 19 | 21 | 26 | | 26 | 19 | 18 | 18 | 18 | 18 | 19 | 18 | 18 | 17 | 17 | 17 | 17 | 16 | 17 | 17 | 17 | 17 | 17 | 20 | 18. |
| 5 | 18 | 18 | 18 | | 21 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 19 | 17 | 17 | 17 | 18 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | 19. |
| 6 | | | | | 44 | 39 | 43 | 44 | 42 | 43 | | | | | | | | | | | | | | | 19. |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | 43. |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 4 | 5 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 13 | 14 | 14 | 14 | 14 | 13 | 4 | 3 | 4 | 4 | 4 | 9. |
| 17 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 9 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 5 | 4 | 4 | 4 | 4 | 4 | 8 | 5. |
| 18 | 7 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 4 | | | | 6 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 8 | 4 | 4 | 5. |
| 19 | 4 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | 5. |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 1 | 1 | 1 | | | | | | | | | | | | | 2 | 1 | | 1 | | | | | | 2. |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | 1. |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 1 | 1 | 1 | | | | | | 1 | 10 | | 1 | 1 | 1 | 6 | 6 | 6 | 4 | 1 | 1 | 1 | | 6 | 1 | 3. |
| 25 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6. |
| 26 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7. |
| 27 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7. |
| 28 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7. |
| 29 | 7 | 7 | 7 | | | | | | | | | | | | | | | | | | | | | | 7. |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | 7. |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | 8. |
| MEAN | 9. | 9. | 10. | 7. | 14. | 12. | 13. | 12. | 13. | 13. | 11. | 11. | 10. | 10. | 10. | 9. | 10. | 10. | 9. | 9. | 9. | 10. | 9. | 10. | 10. |

TOTAL NUMBER OF OBSERVATIONS = 3917 MEAN = 10.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

COOPERATION

DIURNAL VARIATION OF CARBON MONOXIDE(UG/M**3 X 10**--2)
TRAILER NO. - 23 PERIOD(19/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 90 | 91 | 86 | 53 | | 105 | 103 | 101 | 102 | 106 | 93 | 99 | 75 | 96 | 70 | 78 | 79 | | | | 141 | 89 | 83 | 66 | 90. |
| 2 | 67 | 75 | 75 | 97 | 65 | 78 | 59 | 91 | 65 | 80 | 61 | 59 | 51 | 58 | 50 | | | 58 | 77 | 63 | 61 | 68 | 53 | 74 | 68. |
| 3 | 54 | 57 | 44 | 59 | 63 | 53 | 58 | | | | | | | | | | | | | | | | | | 61. |
| 4 | | | | | | | | | | | | | 85 | | | 25 | 73 | 101 | 113 | 93 | 100 | 94 | 76 | 74 | 84. |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 34. | 31. | 33. | 12. | 33. | 40. | 35. | 36. | 35. | 38. | 37. | 35. | 32. | 32. | 28. | 33. | 29. | 31. | 32. | 28. | 32. | 33. | 30. | 31. | |

TOTAL NUMBER OF OBSERVATIONS = 3631 MEAN = 32.

73.

DIURNAL VARIATION OF OZONE(UG/M+3)
TRAILER NO. = 20 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 32 | 33 | 33 | 33 | 33 | 33 | 34 | 33 | 35 | 41 | 49 | 57 | 62 | 58 | 57 | 56 | 55 | 54 | 49 | 36 | 36 | 35 | 34 | 35 | 43 |
| 2 | 35 | 34 | 35 | 36 | 34 | 34 | 35 | 34 | 37 | 41 | 18 | 20 | 20 | 58 | 58 | 59 | 58 | 56 | 54 | 43 | 40 | 38 | 38 | 38 | 43 |
| 3 | 39 | 39 | 40 | * | * | * | * | * | * | 7 | 3 | 5 | 7 | 18 | 15 | 12 | 13 | 5 | 5 | * | 2 | * | 2 | 5 | 11 |
| 4 | 2 | * | 3 | * | * | * | * | * | * | * | 30 | 33 | 34 | 9 | 8 | 10 | 9 | 8 | 2 | * | * | * | * | * | 3 |
| 5 | * | * | * | * | * | 3 | 1 | * | 3 | 19 | 30 | 36 | 34 | 34 | 36 | 36 | 39 | 40 | 36 | 16 | 8 | 4 | 1 | * | 16 |
| 6 | * | * | * | * | * | * | * | * | * | 16 | 31 | 35 | 31 | 48 | 46 | 47 | 51 | 45 | 36 | 23 | 18 | 15 | 12 | 9 | 22 |
| 7 | 11 | 10 | 10 | * | * | * | * | * | * | 11 | 25 | 39 | 38 | 37 | 36 | 37 | 35 | 33 | 33 | 18 | 8 | 7 | 6 | 4 | 17 |
| 8 | 6 | 6 | 4 | 3 | 2 | 2 | 2 | * | 4 | 13 | 17 | 28 | 36 | 37 | 37 | 37 | 36 | 33 | 26 | 11 | 8 | 5 | 3 | 4 | 16 |
| 9 | 5 | 6 | 7 | 7 | 7 | 5 | 8 | 9 | 9 | 17 | 26 | 27 | 26 | 25 | 27 | 37 | 36 | 52 | 47 | 36 | 8 | 30 | 30 | 27 | 21 |
| 10 | 26 | 27 | 26 | 26 | 25 | 22 | 18 | 22 | 24 | 31 | 44 | 47 | 49 | 48 | 48 | 50 | 47 | 47 | 42 | 36 | 31 | 30 | 30 | 27 | 24 |
| 11 | 19 | 22 | 20 | 17 | 19 | 18 | 13 | 16 | 15 | 26 | 39 | 44 | 45 | 46 | 46 | 36 | 33 | 35 | 48 | 29 | 26 | 25 | 25 | 22 | 34 |
| 12 | 15 | 15 | 12 | 8 | 8 | 9 | 9 | 8 | 8 | 12 | 24 | 28 | 29 | 30 | 31 | 35 | 36 | 35 | 29 | 18 | 13 | 11 | 19 | 14 | 29 |
| 13 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 5 | 14 | 28 | 42 | 54 | 53 | 53 | 54 | 53 | 51 | 40 | 25 | 25 | 21 | 20 | 5 | 19 |
| 14 | 18 | 15 | 11 | 11 | 10 | 10 | 6 | 7 | 10 | 21 | 36 | 40 | 43 | 51 | 55 | 55 | 54 | 53 | 46 | 31 | 27 | 27 | 24 | 19 | 25 |
| 15 | 25 | 26 | 25 | 24 | 24 | 24 | 25 | 24 | 25 | 34 | 36 | 40 | 43 | 58 | 57 | 55 | 52 | 47 | 33 | 28 | 29 | 28 | 28 | 26 | 29 |
| 16 | 28 | 25 | 26 | 27 | 27 | 27 | 28 | 32 | 41 | 50 | 53 | 52 | 49 | 49 | 48 | 46 | 37 | 25 | 27 | 23 | 23 | 25 | 23 | 24 | 35 |
| 17 | 24 | 24 | 25 | 20 | 20 | 21 | 20 | 28 | 38 | 48 | 53 | 52 | 48 | 48 | 46 | 47 | 41 | 26 | 25 | 25 | 24 | 25 | 25 | 25 | 34 |
| 18 | 26 | 25 | 24 | 24 | 24 | 22 | 23 | 28 | 37 | 43 | 53 | 52 | 48 | 48 | 46 | 43 | 42 | 40 | 30 | 21 | 24 | 24 | 20 | 19 | 28 |
| 19 | 20 | 20 | 21 | * | * | * | * | * | * | 4 | 6 | 19 | 37 | 38 | 38 | 36 | 34 | 33 | 18 | 13 | 14 | 13 | 13 | 13 | 17 |
| 20 | 11 | 12 | 13 | * | * | * | * | * | 2 | 6 | 16 | 23 | 22 | 19 | 18 | 19 | 20 | 20 | 9 | * | * | * | * | * | 9 |
| 21 | * | 1 | * | * | * | * | * | * | 2 | 8 | 14 | 18 | 18 | 15 | 23 | 22 | 17 | 11 | 6 | 4 | 6 | 2 | * | * | 7 |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | 14 | 22 | 24 | 22 | 17 | 8 | 6 | 4 | 1 | * | * | * | 5 |
| 23 | * | * | * | 2 | 3 | 5 | 3 | 3 | 8 | 11 | 19 | 31 | 30 | 29 | 26 | 31 | 30 | 20 | 24 | 27 | 23 | 18 | 12 | 9 | 16 |
| 24 | 6 | 6 | 4 | * | * | * | * | 1 | 5 | 17 | 20 | 25 | 31 | 30 | 30 | 29 | 31 | 29 | 17 | 20 | 12 | 2 | 2 | * | 14 |
| 25 | * | * | * | 1 | 4 | 16 | 5 | 7 | 10 | 16 | 23 | 33 | 33 | 30 | 39 | 38 | 38 | 34 | 22 | 12 | 7 | 5 | 6 | 7 | 15 |
| 26 | 5 | 4 | 6 | 6 | 8 | 9 | 10 | 10 | 12 | 19 | 28 | 48 | 52 | 51 | 49 | 48 | 49 | 44 | 35 | 23 | 12 | 15 | 17 | 24 | 24 |
| 27 | 17 | 18 | 18 | 17 | 16 | 15 | 16 | 13 | 16 | 23 | 28 | 46 | 48 | 48 | 46 | 46 | 46 | 44 | 39 | 35 | 13 | 15 | 17 | 18 | 29 |
| 28 | 18 | 16 | 14 | 14 | 16 | 17 | 18 | 21 | 21 | 28 | 38 | 43 | 46 | 47 | 48 | 46 | 46 | 41 | 39 | 35 | 37 | 23 | 23 | 18 | 28 |
| 29 | 37 | 37 | 32 | 25 | 20 | 17 | 15 | 14 | 14 | 21 | 24 | 43 | 46 | 49 | 48 | 46 | 45 | 43 | 32 | 21 | 16 | 18 | 18 | 21 | 28 |
| 30 | 31 | 28 | 27 | * | * | * | * | * | * | * | * | 11 | 23 | 25 | 25 | 51 | 23 | 23 | 16 | 2 | 1 | * | * | * | 30 |
| 31 | 3 | 3 | 11 | * | * | * | * | * | * | * | * | * | 23 | 46 | 45 | 45 | 44 | 44 | 43 | 37 | 23 | 23 | 25 | 24 | 19 |

TOTAL NUMBER OF OBSERVATIONS = 8566 MEAN = 22.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

MEAN 15. 15. 15. 12. 10. 10. 10. 10. 10. 10. 13. 19. 26. 32. 37. 39. 39. 40. 38. 35. 30. 21. 18. 16. 15. 14.

JOURNAL VARIATION OF OZONE (UG/M**3)
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 42 | 44 | 44 | 44 | | 45 | 45 | 45 | 43 | 42 | 41 | 40 | 39 | 39 | 39 | 39 | 40 | 19 | | | 43 | 44 | 44 | 44 |
| 2 | 45 | 45 | 48 | 46 | 46 | 45 | 45 | 51 | 46 | 44 | 43 | 42 | 42 | 38 | 40 | | 55 | 46 | 43 | 45 | 44 | 44 | 47 | 42. |
| 3 | 47 | 45 | 46 | 45 | 45 | 45 | 50 | | | | | | | | | | | | | | | | | 45. |
| 4 | | | | | | | | | | | | 40 | | | | 28 | 20 | 16 | 8 | 2 | 1 | 5 | 1 | 2 |
| 5 | * | * | * | * | | | | | | | | | | | | | | | | | | | | 12. |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | 0. |
| 7 | | | | | | | | | | | | | | | | 5 | * | * | * | * | * | * | * | * |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | 0. |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 5 | 5 | 6 | 5 | 7 | | | | | | | | | | | | | 5 | 5 | 7 | 7 | 7 | 7 | 7. |
| 11 | 11 | 11 | 10 | 11 | 10 | 12 | 13 | 13 | 11 | 10 | 11 | 12 | 15 | 16 | 17 | 17 | 18 | 16 | 12 | 11 | 13 | 15 | 14 | 13. |
| 12 | | | | | | | | | | | | | 18 | 18 | 20 | 21 | 17 | 20 | 9 | 10 | 12 | 11 | 8 | 15. |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 21. | 21. | 21. | 23. | 21. | 23. | 23. | 21. | 21. | 21. | 22. | 22. | 20. | 19. | 18. | 16. | 16. | 12. | 12. | 14. | 16. | 15. | 15. | |

TOTAL NUMBER OF OBSERVATIONS = 2702 MEAN = 19.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

HOURLY TOTAL SOLAR RADIATION(LANGLEY)
TRAILER NO. # 23 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | TOTAL |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

HOURLY TOTAL PRECIPITATION(INCHES)
TRAILER NO. # 20 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 TOT

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

TOTAL 0.

HOURLY TOTAL PRECIPITATION(INCHES)
TRAILER NO. 21 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 TOT

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

TOTAL 0.

HOURLY TOTAL PRECIPITATION(INCHES)
TRAILER NO. - 22 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | 24 TOTAL |
|-------|------|----|----|----|----|----|----|----|----|----|----|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 23 |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| TOTAL | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

HOURLY TOTAL PRECIPITATION(INCHES)
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 TOTAL |
| 1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 2 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 3 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 4 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 6 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 7 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 8 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 10 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 13 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 14 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 15 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 16 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 18 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 19 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 20 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 21 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 22 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 23 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 24 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 25 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 26 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 27 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 28 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 29 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 30 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 31 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

HOURLY TOTAL PRECIPITATION(INCHES)
TRAILER NO. = 24 PERIOD(10/ 1/74 TO 10/31/74)

五二

[illegible]

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

[illegible]

DIURNAL VARIATION OF WIND SPEED AT 8 FEET(MPH)
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 7 | 7 | 3 | 3 | 3 | 1 | 2.33 |
| 2 | 1 | 0 | 1 | 2 | 2 | 2 | 3 | 1 | 1 | 1 | 0 | 1 | 3 | 2 | 1 | 8 | 7 | 5 | 1 | 0 | 0 | 1 | 0 | 0 | 2.33 |
| 3 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| MEAN | 1. | 1. | 1. | 2. | 2. | 2. | 3. | 2. | 2. | 2. | 3. | 3. | 4. | 4. | 4. | 4. | 4. | 4. | 2. | 2. | 2. | 2. | 2. | 2. | 2. |

TOTAL NUMBER OF OBSERVATIONS = 4749 MEAN = 2.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND SPEED AT 30 FEET(MPH)
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|------|
| 1 | 0 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 4 | 7 | 6 | 7 | 6 | 6 | 8 | 3 | 4 | 3 | 2 | 3 | 3 | 3 |
| 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 5 | 5 | 7 | 7 | 9 | 10 | 9 | 8 | 4 | 3 | 2 | 3 | 3 | 3 | 3 |
| 3 | 0 | 0 | 1 | 3 | 3 | 2 | 4 | 1 | 1 | 3 | 4 | 8 | 11 | 9 | 9 | 10 | 11 | 10 | 7 | 3 | 4 | 3 | 3 | 3 | 3 |
| 4 | 1 | 2 | 2 | 2 | 2 | 4 | 5 | 5 | 4 | 3 | 4 | 8 | 13 | 16 | 17 | 16 | 17 | 13 | 6 | 8 | 5 | 2 | 4 | 4 | 4 |
| 5 | 5 | 7 | 9 | 11 | 17 | 19 | 17 | 13 | 18 | 17 | 21 | 27 | 17 | 16 | 18 | 18 | 18 | 20 | 10 | 7 | 15 | 11 | 12 | 11 | 15 |
| 6 | 8 | 6 | 6 | 6 | 12 | 8 | 4 | 3 | 4 | 3 | 2 | 4 | 7 | 5 | 6 | 4 | 3 | 5 | 4 | 9 | 3 | 2 | 7 | 5 | 5 |
| 7 | 4 | 3 | 4 | 5 | 4 | 4 | 6 | 4 | 5 | 4 | 4 | 13 | 18 | 17 | 6 | 6 | 6 | 6 | 7 | 9 | 5 | 6 | 3 | 4 | 7 |
| 8 | 5 | 5 | 3 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 3 | 4 | 4 | 17 | 6 | 6 | 6 | 6 | 7 | 9 | 5 | 6 | 3 | 3 | 3 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 1 | 2 | 2 | 2 | 4 | 3 | 3 | 2 | 3 | 2 | 2 | 4 | 4 | 6 | 7 | 6 | 6 | 8 | 3 | 4 | 4 | 3 | 2 | 2 | 3 |
| 17 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 5 | 5 | 7 | 9 | 9 | 10 | 9 | 8 | 4 | 3 | 2 | 3 | 3 | 3 | 3 |
| 18 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 19 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 21 | 5 | 7 | 9 | 11 | 17 | 19 | 17 | 13 | 18 | 17 | 21 | 27 | 17 | 16 | 18 | 18 | 18 | 20 | 10 | 7 | 15 | 11 | 12 | 11 | 15 |
| 22 | 8 | 6 | 6 | 6 | 12 | 8 | 4 | 3 | 4 | 3 | 2 | 4 | 7 | 5 | 6 | 4 | 3 | 5 | 4 | 9 | 3 | 2 | 7 | 5 | 5 |
| 23 | 4 | 3 | 4 | 5 | 4 | 4 | 6 | 4 | 5 | 4 | 4 | 13 | 18 | 17 | 6 | 6 | 6 | 6 | 7 | 9 | 5 | 6 | 3 | 4 | 7 |
| 24 | 5 | 5 | 3 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 3 | 4 | 4 | 17 | 6 | 6 | 6 | 6 | 7 | 9 | 5 | 6 | 3 | 3 | 3 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 3 | 3 | 2 | 2 | 2 | 5 | 3 | 2 | 2 | 3 | 7 | 11 | 11 | 9 | 9 | 7 | 5 | 7 | 5 | 4 | 6 | 3 | 2 | 2 | 2 |
| 27 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 6 | 8 | 10 | 8 | 9 | 11 | 6 | 7 | 6 | 5 | 2 | 2 | 2 |
| 28 | 12 | 10 | 11 | 8 | 7 | 5 | 5 | 4 | 5 | 3 | 2 | 4 | 10 | 5 | 7 | 2 | 3 | 4 | 4 | 9 | 6 | 7 | 12 | 10 | 10 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 11 | 10 | 13 | 15 | 15 | 11 | 10 | 7 | 9 | 20 | 18 | 19 | 19 | 20 | 18 | 17 | 16 | 14 | 9 | 7 | 7 | 6 | 5 | 4 | 13 |
| MEAN | 5. | 5. | 5. | 6. | 6. | 6. | 5. | 4. | 5. | 6. | 7. | 9. | 12. | 11. | 12. | 10. | 10. | 10. | 7. | 7. | 7. | 6. | 6. | 5. | 5. |

TOTAL NUMBER OF OBSERVATIONS = 3697 MEAN = 7.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND SPEED AT 100 FEET(MPH)
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 3 | 4 | 4 | 4 | | 3 | 4 | 3 | 3 | 4 | 8 | 10 | 12 | 10 | 10 | 9 | 9 | 7 | | | 2 | 2 | 5 | 2 |
| 2 | 3 | 2 | 4 | 4 | 3 | 4 | 3 | 3 | | 5 | 9 | 12 | 16 | 15 | 14 | | | 17 | | 16 | 10 | 9 | 3 | 5 |
| 3 | 4 | 8 | 4 | 5 | 4 | 5 | 3 | | | | | | | | | | | | 15 | | | | | |
| 4 | 1 | 1 | 1 | 2 | 2 | 0 | 4 | 0 | 3 | 4 | 5 | 2 | 2 | 0 | 2 | 13 | 14 | 10 | 7 | 3 | 1 | 5 | 0 | 4 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 5 | 4 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 6 | 3 | 1 | 5 | 2 | 8 | 4 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 1 | 1 | 2 | 2 | 3 | 12 | 11 | 1 | 13 | 14 | 14 | 15 | 16 | 14 | 14 | 17 | 11 | 8 | 8 | 9 | 9 | 4 | 3 |
| 10 | 2 | 5 | 3 | 1 | 0 | 1 | 1 | 0 | 2 | 5 | 5 | 2 | 2 | 8 | 4 | 2 | 1 | 3 | 3 | 1 | 3 | 1 | 4 | 7 |
| 11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | |
| 12 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 6 | 1 | 2 | 1 | 1 | 1 | 9 | 5 | 3 | 3 | 1 | 0 |
| 13 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 3 | 4 | 7 | 4 | 4 | 4 | 6 | 1 | 3 | 1 | 5 | 1 | 1 |
| 14 | 0 | 4 | 1 | 3 | 4 | 0 | 3 | 1 | 1 | 2 | 3 | 4 | 4 | 10 | 12 | 11 | 8 | 8 | 5 | 0 | 5 | 2 | 2 | 2 |
| 15 | 0 | 1 | 2 | 1 | 0 | 2 | 1 | 2 | 1 | 3 | 5 | 5 | 2 | 4 | 6 | 6 | 7 | 6 | 2 | 3 | 5 | 2 | 2 | 2 |
| 16 | 0 | 2 | 2 | 4 | 3 | 4 | 1 | 3 | 2 | 3 | 2 | 4 | 7 | 10 | 10 | 7 | 5 | 5 | 6 | 3 | 1 | 2 | 3 | 3 |
| 17 | 2 | 3 | 2 | 3 | 2 | 4 | 1 | 2 | 2 | 2 | 2 | 6 | 8 | 8 | 10 | 11 | 10 | 10 | 7 | 1 | 1 | 2 | 3 | 3 |
| 18 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 3 | 5 | 9 | 12 | 10 | 10 | 11 | 10 | 9 | 10 | 4 | 1 | 2 | 2 | 2 |
| 19 | 1 | 3 | 3 | 3 | 1 | 6 | 7 | 5 | 5 | 3 | 5 | 6 | 14 | 18 | 19 | 18 | 20 | 15 | 11 | 14 | 13 | 15 | 14 | 4 |
| 20 | 3 | 9 | 11 | 15 | 21 | 23 | 20 | 16 | 21 | 21 | 24 | 30 | 19 | 17 | 20 | 5 | 4 | 6 | 12 | 7 | 2 | 3 | 7 | 5 |
| 21 | 9 | 11 | 13 | 15 | 16 | 11 | 3 | 3 | 4 | 3 | 3 | 4 | 8 | 6 | 6 | 7 | 7 | 7 | 9 | 12 | 7 | 8 | 4 | 5 |
| 22 | 9 | 6 | 7 | 8 | 3 | 3 | 6 | 5 | 5 | 6 | 5 | 15 | 20 | 19 | | | 4 | 6 | | | 2 | 3 | 5 | 5 |
| 23 | 6 | 6 | 3 | 1 | 4 | 4 | 2 | 3 | 2 | 2 | 3 | 5 | 20 | 19 | | | 7 | 7 | 9 | | 7 | 8 | 4 | 5 |
| 24 | 6 | 6 | 3 | 1 | 4 | 4 | 2 | 3 | 2 | 2 | 3 | 5 | 20 | 19 | | | 7 | 7 | 9 | | 7 | 8 | 4 | 5 |
| 25 | 2 | 2 | 2 | 3 | 4 | 5 | 2 | 2 | 3 | 2 | 8 | 13 | 12 | 10 | 10 | 7 | 6 | 5 | 6 | 4 | 6 | 3 | 2 | 2 |
| 26 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 4 | 6 | 9 | 11 | 8 | 6 | 8 | 5 | 3 | 3 | 5 | 3 | 2 |
| 27 | | | | | | | | | | | | | | | | | 10 | 13 | 7 | | | | | |
| 28 | 15 | 13 | 14 | 11 | 10 | 7 | 7 | 5 | 6 | 2 | 2 | 4 | 11 | 5 | 7 | 2 | 3 | 6 | 4 | 8 | 8 | 9 | 14 | 12 |
| 29 | 7 | 6 | 7 | 7 | 7 | 8 | 9 | 8 | 6 | 5 | 4 | 10 | 13 | 13 | 16 | 15 | 14 | 13 | 12 | 12 | 7 | 8 | 10 | 9 |
| 30 | 13 | 13 | 16 | 17 | 18 | 13 | 12 | 9 | 11 | 24 | 22 | 22 | 23 | 24 | 21 | 20 | 19 | 16 | 11 | 9 | 15 | 15 | 13 | 11 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 4. | 4. | 4. | 5. | 5. | 5. | 5. | 4. | 4. | 5. | 6. | 8. | 10. | 10. | 10. | 9. | 9. | 9. | 7. | 6. | 6. | 6. | 5. | 4. |

TOTAL NUMBER OF OBSERVATIONS = 7449 MEAN = 6.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND SPEED AT 200 FEET(MPH)
TRAILER NO. # 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|------|------|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 8. | 8. | 8. | 7. | 7. | 7. | 7. | 6. | 5. | 5. | 7. | 8. | 10. | 15. | 13. | 13. | 10. | 9. | 9. | 8. | 9. | 9. | 8. | 7. | |

| | TOTAL NUMBER OF OBSERVATIONS = 1945 | MEAN = 9. |
|-----|-------------------------------------|-----------|
| 1 | 10 | 8.7 |
| 2 | 10 | 8.6 |
| 3 | 10 | 8.5 |
| 4 | 10 | 8.4 |
| 5 | 10 | 8.3 |
| 6 | 10 | 8.2 |
| 7 | 10 | 8.1 |
| 8 | 10 | 8.0 |
| 9 | 10 | 7.9 |
| 10 | 10 | 7.8 |
| 11 | 10 | 7.7 |
| 12 | 10 | 7.6 |
| 13 | 10 | 7.5 |
| 14 | 10 | 7.4 |
| 15 | 10 | 7.3 |
| 16 | 10 | 7.2 |
| 17 | 10 | 7.1 |
| 18 | 10 | 7.0 |
| 19 | 10 | 6.9 |
| 20 | 10 | 6.8 |
| 21 | 10 | 6.7 |
| 22 | 10 | 6.6 |
| 23 | 10 | 6.5 |
| 24 | 10 | 6.4 |
| 25 | 10 | 6.3 |
| 26 | 10 | 6.2 |
| 27 | 10 | 6.1 |
| 28 | 10 | 6.0 |
| 29 | 10 | 5.9 |
| 30 | 10 | 5.8 |
| 31 | 10 | 5.7 |
| 32 | 10 | 5.6 |
| 33 | 10 | 5.5 |
| 34 | 10 | 5.4 |
| 35 | 10 | 5.3 |
| 36 | 10 | 5.2 |
| 37 | 10 | 5.1 |
| 38 | 10 | 5.0 |
| 39 | 10 | 4.9 |
| 40 | 10 | 4.8 |
| 41 | 10 | 4.7 |
| 42 | 10 | 4.6 |
| 43 | 10 | 4.5 |
| 44 | 10 | 4.4 |
| 45 | 10 | 4.3 |
| 46 | 10 | 4.2 |
| 47 | 10 | 4.1 |
| 48 | 10 | 4.0 |
| 49 | 10 | 3.9 |
| 50 | 10 | 3.8 |
| 51 | 10 | 3.7 |
| 52 | 10 | 3.6 |
| 53 | 10 | 3.5 |
| 54 | 10 | 3.4 |
| 55 | 10 | 3.3 |
| 56 | 10 | 3.2 |
| 57 | 10 | 3.1 |
| 58 | 10 | 3.0 |
| 59 | 10 | 2.9 |
| 60 | 10 | 2.8 |
| 61 | 10 | 2.7 |
| 62 | 10 | 2.6 |
| 63 | 10 | 2.5 |
| 64 | 10 | 2.4 |
| 65 | 10 | 2.3 |
| 66 | 10 | 2.2 |
| 67 | 10 | 2.1 |
| 68 | 10 | 2.0 |
| 69 | 10 | 1.9 |
| 70 | 10 | 1.8 |
| 71 | 10 | 1.7 |
| 72 | 10 | 1.6 |
| 73 | 10 | 1.5 |
| 74 | 10 | 1.4 |
| 75 | 10 | 1.3 |
| 76 | 10 | 1.2 |
| 77 | 10 | 1.1 |
| 78 | 10 | 1.0 |
| 79 | 10 | .9 |
| 80 | 10 | .8 |
| 81 | 10 | .7 |
| 82 | 10 | .6 |
| 83 | 10 | .5 |
| 84 | 10 | .4 |
| 85 | 10 | .3 |
| 86 | 10 | .2 |
| 87 | 10 | .1 |
| 88 | 10 | .0 |
| 89 | 10 | .0 |
| 90 | 10 | .0 |
| 91 | 10 | .0 |
| 92 | 10 | .0 |
| 93 | 10 | .0 |
| 94 | 10 | .0 |
| 95 | 10 | .0 |
| 96 | 10 | .0 |
| 97 | 10 | .0 |
| 98 | 10 | .0 |
| 99 | 10 | .0 |
| 100 | 10 | .0 |

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF TEMPERATURE AT 8 FEET (DEG F)
TRAILER NO. # 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 43 | 47 | 45 | 43 | | 40 | 42 | 53 | 62 | 72 | 75 | 76 | 76 | 76 | 74 | 72 | 69 | 63 | | | 51 | 49 | 48 | 47 |
| 2 | 46 | 45 | 42 | 45 | 43 | 43 | 39 | 43 | 52 | 63 | 72 | 76 | 77 | 78 | 79 | | | 70 | 60 | 56 | 51 | 49 | 43 | 46 |
| 3 | 46 | 44 | 46 | 46 | 46 | 45 | 43 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 40 | 38 | 36 | 36 | 38 | 38 | 38 | 39 | 40 | 41 | 41 | 41 | 43 | 44 | 47 | 50 | 55 | 63 | 59 | 55 | 52 | 49 | 46 | 43 |
| 6 | 35 | | | | | | | | | | | | | | | | | | 50 | 43 | 39 | 37 | 36 | 35 |
| 7 | 33 | 32 | 33 | 29 | 29 | 29 | 29 | 30 | 39 | 50 | 57 | 61 | 63 | 64 | 59 | 60 | 64 | 57 | 45 | 41 | 38 | 37 | 36 | 36 |
| 8 | 34 | 33 | 32 | 31 | 31 | 30 | 30 | 31 | 40 | 51 | 60 | 65 | 66 | 67 | 69 | 66 | 62 | 61 | 55 | 48 | 43 | 40 | 39 | 38 |
| 9 | 37 | 37 | 39 | 39 | 38 | 39 | 40 | 45 | 47 | 53 | 57 | 62 | 62 | 65 | 62 | 64 | 63 | 60 | 54 | 47 | 42 | 42 | 41 | 41 |
| 10 | 41 | 41 | 40 | 39 | 37 | 35 | 36 | 37 | 40 | 50 | 56 | 55 | | | | | 59 | 55 | 50 | 46 | 42 | 40 | 38 | 37 |
| 11 | 35 | 34 | 33 | 30 | 32 | 31 | 31 | 32 | 34 | 41 | 47 | 45 | 51 | 52 | 44 | 40 | 38 | 37 | 35 | 34 | 32 | 32 | 31 | 30 |
| 12 | 29 | 29 | 29 | 29 | 30 | 31 | 37 | 38 | 42 | 53 | 61 | 65 | 69 | 70 | 58 | 59 | 60 | 58 | 55 | 53 | 52 | 50 | 47 | 43 |
| 13 | 41 | 40 | 39 | 37 | 37 | 37 | 37 | 29 | 38 | 49 | 56 | 30 | 65 | 68 | 69 | 72 | 71 | 67 | 59 | 50 | 45 | 44 | 42 | 42 |
| 14 | 42 | 41 | 39 | 35 | 33 | 30 | 28 | 28 | 35 | 46 | 54 | 58 | 78 | 80 | | | 66 | 62 | 53 | 46 | 44 | 42 | 38 | 34 |
| 15 | 30 | 30 | 29 | 28 | 28 | 28 | 28 | 28 | 35 | 46 | 54 | 58 | 78 | 80 | | | 81 | 75 | 66 | 54 | 42 | 42 | 41 | 40 |
| 16 | 39 | 38 | 37 | 36 | 36 | 35 | 34 | 37 | 41 | 53 | 61 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 49 | 48 | 49 | 44 | 43 | 45 | 42 | 45 | 48 | 55 | 62 | 66 | 69 | 70 | 71 | 70 | 69 | 67 | 63 | 58 | 54 | 51 | 49 | 47 |
| 20 | 49 | 49 | 47 | 47 | 46 | 45 | 46 | 44 | 46 | 54 | 61 | 65 | 66 | 68 | 68 | 67 | 66 | 64 | 59 | 54 | 51 | 53 | 51 | 49 |
| 21 | 49 | 50 | 51 | 50 | 52 | 52 | 52 | 52 | 53 | 55 | 55 | 51 | 53 | 53 | 58 | 58 | 57 | 51 | 43 | 42 | 50 | 51 | 50 | 50 |
| 22 | 37 | 37 | 37 | 36 | 43 | 42 | 42 | 41 | 39 | 38 | 41 | 46 | 51 | 54 | 56 | 56 | 54 | 52 | 51 | 48 | 47 | 45 | 44 | 44 |
| 23 | 43 | 43 | 42 | 41 | 42 | 41 | 42 | 41 | 41 | 45 | 48 | 50 | 51 | 50 | | 49 | 49 | 48 | 47 | 40 | 40 | 40 | 40 | 39 |
| 24 | 39 | 40 | 40 | 40 | 40 | 38 | 38 | 38 | 39 | 40 | 44 | 46 | | | | | | | 47 | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 36 | 36 | 37 | 35 | 35 | 36 | 36 | 35 | 37 | 41 | 50 | 53 | 55 | 56 | 57 | 56 | 56 | 55 | 50 | 43 | 39 | 39 | 38 | 38 |
| 27 | 38 | 39 | 39 | 36 | 38 | 37 | 36 | 35 | 38 | 42 | 46 | 49 | 51 | 51 | 53 | 52 | 51 | 48 | 46 | 45 | 43 | 41 | 41 | 40 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 38 | 37 | 36 | 37 | 37 | 38 | 37 | 36 | 36 | 36 | 38 | 39 | 37 | 36 | 34 | 33 | 31 | 31 | 39 | 38 | 38 | 38 | 40 | |
| 30 | 30 | 29 | 28 | 27 | 24 | 26 | 27 | 27 | 27 | 28 | 29 | 32 | 34 | 35 | 35 | 36 | 34 | 32 | 31 | 33 | 32 | 31 | 31 | 31 |
| 31 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 32 | 32 | 33 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 35 | 35 | 34 |
| MEAN | 39. | 39. | 39. | 37. | 37. | 37. | 37. | 38. | 42. | 48. | 53. | 53. | 58. | 59. | 58. | 58. | 57. | 55. | 51. | 46. | 43. | 42. | 41. | 40. |

TOTAL NUMBER OF OBSERVATIONS = 6815 MEAN = 46.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

HOUR

TOTAL NUMBER OF OBSERVATIONS = 6788 MEAN = 47.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF TEMPERATURE AT 100 FEET (DEG F)
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 55 | 53 | 55 | 54 | 55 | 55 | 52 | | | | | | | | | | | 68 | 61 | 63 | 61 | 57 | 52 | 57 | 60. |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | 55. |
| 4 | 48 | 44 | 43 | 42 | 42 | 41 | 38 | 39 | 39 | 40 | 39 | 39 | 47 | 41 | 43 | 63 | 62 | 62 | 61 | 57 | 55 | 51 | 49 | 48 | 55. |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | 56. |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | 44. |
| 7 | 41 | 38 | 39 | 37 | 38 | 38 | 37 | 35 | 38 | 44 | 48 | 52 | 53 | 55 | 56 | 58 | 56 | 55 | 54 | 51 | 45 | 44 | 42 | 41 | 45. |
| 8 | 45 | 41 | 41 | 40 | 40 | 40 | 39 | 40 | 42 | 46 | 53 | 55 | 56 | 57 | 59 | 59 | 59 | 58 | 56 | 54 | 49 | 49 | 46 | 46 | 47. |
| 9 | 47 | 47 | 47 | 46 | 46 | 46 | 47 | 46 | 47 | 51 | 52 | 54 | | 56 | 56 | 58 | 58 | 57 | 55 | 53 | 53 | 52 | 48 | 48 | 53. |
| 10 | 47 | 47 | 46 | 45 | 46 | 42 | 41 | 44 | 43 | 48 | 50 | 52 | | 56 | 56 | | | 54 | 52 | 51 | 49 | 49 | 44 | 41 | 51. |
| 11 | 40 | 40 | 37 | 35 | 36 | 36 | 36 | 35 | 36 | 38 | 40 | 41 | 45 | 47 | 41 | 39 | 37 | 36 | 35 | 35 | 35 | 35 | 34 | 33 | 38. |
| 12 | 33 | 33 | 33 | 32 | 32 | 32 | | | | 49 | 53 | 56 | 59 | 48 | 51 | 53 | 55 | 55 | 55 | 55 | 55 | 53 | 53 | 50 | 46. |
| 13 | 49 | 47 | 48 | 47 | 46 | 45 | 45 | 44 | 44 | 49 | 53 | | 59 | 60 | 62 | 63 | 63 | 63 | 62 | 60 | 58 | 55 | 51 | 51 | 54. |
| 14 | 51 | 48 | 43 | 42 | 40 | 37 | 35 | 35 | 38 | 41 | 45 | | 55 | 58 | 58 | 59 | 60 | 59 | 57 | 56 | 53 | 53 | 49 | 40 | 49. |
| 15 | 39 | 40 | 37 | 36 | 37 | 38 | 36 | 36 | 38 | 43 | 48 | 50 | 65 | 68 | | | 73 | 72 | 70 | 62 | 48 | 51 | 49 | 49 | 50. |
| 16 | 49 | 47 | 44 | 43 | 44 | 44 | 44 | 45 | 44 | 50 | 54 | 57 | 59 | 60 | 61 | 62 | | | | | | | | | 51. |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 53 | 52 | 53 | 53 | 49 | 49 | 49 | 49 | 51 | 54 | 60 | 64 | 65 | 67 | 67 | 68 | 67 | 68 | 64 | 63 | 61 | 60 | 58 | 55 | 61. |
| 20 | 54 | 54 | 54 | 52 | 52 | 51 | 51 | 50 | 50 | 54 | 60 | 62 | 63 | 65 | 65 | 65 | 64 | 63 | 63 | 60 | 58 | 56 | 56 | 55 | 58. |
| 21 | 53 | 54 | 53 | 52 | 53 | 53 | 52 | 52 | 53 | 53 | 53 | 49 | 52 | 51 | 56 | 54 | 57 | 52 | 43 | 42 | 42 | 43 | 43 | 43 | 51. |
| 22 | 37 | 36 | 36 | 37 | 44 | 44 | 44 | 44 | 43 | 40 | 41 | 45 | 50 | | | | 54 | 53 | 51 | 50 | 49 | 48 | 47 | 45 | 45. |
| 23 | 44 | 44 | 43 | 44 | 44 | 44 | 45 | 44 | 44 | 45 | 47 | 49 | 49 | 48 | | | 48 | 48 | 47 | 40 | 40 | 41 | 40 | 40 | 45. |
| 24 | 41 | 41 | 41 | 41 | 41 | 39 | 40 | 40 | 40 | 40 | 43 | 45 | | | | | | | | | | | | | 41. |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | 47. |
| 26 | 40 | 41 | 41 | 41 | 39 | 42 | 41 | 40 | 41 | 43 | 49 | 52 | 52 | 54 | 55 | 55 | 55 | 54 | 51 | 49 | 48 | 46 | 45 | 45 | 47. |
| 27 | 44 | 42 | 42 | 41 | 39 | 39 | 41 | 41 | 40 | 42 | 45 | 48 | 50 | 50 | 51 | 51 | 50 | 48 | 47 | 45 | 44 | 44 | 45 | 45 | 45. |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 41. |
| 29 | 38 | 37 | 37 | 39 | 39 | 39 | 40 | 38 | 36 | 36 | 38 | 38 | 36 | 35 | 34 | 32 | 31 | 31 | 32 | 34 | 41 | 40 | 40 | 39 | 41. |
| 30 | 31 | 31 | 30 | 29 | 30 | 30 | 29 | 29 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 34 | 33 | 31 | 30 | 30 | 32 | 32 | 32 | 31 | 36. |
| 31 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 29 | 30 | 31 | 32 | 32 | 32 | 34 | 33 | 34 | 35 | 35 | 35 | 35 | 36 | 35 | 35 | 35 | 31. |
| MEAN | 44. | 43. | 43. | 42. | 42. | 42. | 42. | 41. | 42. | 44. | 47. | 49. | 51. | 52. | 52. | 53. | 54. | 53. | 52. | 50. | 48. | 47. | 46. | 45. | |

TOTAL NUMBER OF OBSERVATIONS = 6378 MEAN = 47.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT.

DIURNAL VARIATION OF TEMPERATURE AT 200 FEET (DEG F)
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 50 | 51 | 50 | 51 | | 49 | 49 | 55 | 59 | 66 | 69 | 69 | 70 | 70 | 70 | 69 | 68 | 64 | | | 57 | 55 | 56 | 51 |
| 2 | 53 | 51 | 48 | 51 | 50 | 51 | 49 | 50 | 57 | 62 | 66 | 69 | 70 | 70 | 71 | | | 64 | 61 | 62 | 61 | 57 | 51 | 53 |
| 3 | 55 | 52 | 53 | 53 | 53 | 53 | 50 | | | | | | | | | | | 67 | 61 | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 46 | 43 | 41 | 41 | 42 | 41 | 39 | 39 | 39 | 40 | 39 | 40 | 41 | 42 | 44 | 47 | 52 | 62 | 60 | 57 | 54 | | 47 | 47 |
| 6 | | | | | | | | | | | | | 48 | | | 64 | 62 | 62 | 49 | 44 | 43 | 41 | 39 | 43 |
| 7 | 36 | 36 | 36 | 35 | 36 | 35 | 34 | 36 | 41 | 48 | 53 | 56 | 57 | 58 | 58 | 61 | 59 | 47 | 45 | 44 | 43 | 41 | 40 | 39 |
| 8 | 43 | 40 | 39 | 38 | 36 | 36 | 35 | 35 | 43 | 50 | 55 | 59 | 60 | 61 | 63 | 63 | 60 | 59 | 55 | 51 | 47 | 44 | 43 | 42 |
| 9 | 43 | 45 | 45 | 44 | 44 | 45 | 46 | 47 | 49 | 52 | 53 | 55 | 56 | 58 | 56 | 59 | 58 | 57 | 54 | 53 | 53 | 47 | 45 | 43 |
| 10 | 45 | 45 | 44 | 43 | 42 | 42 | 41 | 42 | 44 | 49 | 52 | 53 | 56 | 58 | 56 | 59 | 58 | 57 | 54 | 53 | 53 | 51 | 48 | 46 |
| 11 | 39 | 38 | 38 | 36 | 35 | 34 | 35 | 35 | 36 | 39 | 44 | 43 | 47 | 49 | 42 | 40 | 37 | 34 | 36 | 34 | 35 | 34 | 34 | 33 |
| 12 | 32 | 32 | 31 | 32 | 32 | 33 | | | | | | | | | | | | 54 | 51 | 48 | 47 | 47 | 44 | 41 |
| 13 | 46 | 44 | 43 | 44 | 43 | 41 | 42 | 43 | 47 | 54 | 59 | 61 | 63 | 64 | 66 | 67 | 67 | 56 | 55 | 54 | 54 | 53 | 51 | 47 |
| 14 | 46 | 47 | 44 | 41 | 39 | 36 | 35 | 35 | 39 | 45 | 51 | | | 51 | 55 | 56 | 57 | 65 | 61 | 57 | 55 | 51 | 50 | 48 |
| 15 | 37 | 35 | 34 | 35 | 33 | 32 | 33 | 35 | 40 | 46 | 51 | 54 | 59 | 61 | 62 | 63 | 63 | 60 | 56 | 52 | 50 | 50 | 49 | 38 |
| 16 | 45 | 46 | 44 | 41 | 40 | 41 | 42 | 44 | 46 | 53 | 58 | 61 | 63 | 64 | 65 | | | 74 | 68 | 60 | 52 | 48 | 46 | 45 |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 48 | 50 | 51 | 50 | 48 | 47 | 46 | 45 | 49 | 57 | 62 | 66 | 67 | 68 | 70 | 69 | 68 | 68 | 65 | 61 | 57 | 55 | 52 | 50 |
| 19 | 51 | 51 | 52 | 52 | 48 | 47 | 49 | 49 | 52 | 57 | 62 | 64 | 65 | 65 | 66 | 66 | 68 | 66 | 63 | 61 | 59 | 54 | 51 | 57 |
| 20 | 53 | 53 | 52 | 52 | 53 | 53 | 52 | 51 | 52 | 54 | 53 | 49 | 52 | 51 | 57 | 57 | 64 | 63 | 61 | 58 | 57 | 56 | 55 | 54 |
| 21 | 37 | 36 | 36 | 37 | 44 | 44 | 44 | 44 | 44 | 43 | 44 | 47 | 51 | 53 | 56 | 55 | 56 | 51 | 42 | 41 | 40 | 42 | 42 | 43 |
| 22 | 44 | 43 | 42 | 43 | 44 | 44 | 44 | 44 | 44 | 45 | 47 | 47 | 51 | 53 | 56 | 55 | 54 | 52 | 51 | 49 | 46 | 46 | 46 | 45 |
| 23 | 43 | 41 | 41 | 40 | 40 | 40 | 38 | 40 | 40 | 41 | 45 | 49 | 50 | 49 | | | 47 | 47 | 46 | 39 | 39 | 39 | 39 | 39 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 39 | 39 | 38 | 38 | 37 | 39 | 39 | 38 | 41 | 46 | 50 | 53 | 54 | 55 | 57 | 53 | 52 | 52 | 49 | 48 | 44 | 42 | 39 | 46 |
| 26 | 41 | 41 | 41 | 40 | 39 | 38 | 37 | 36 | 41 | 46 | 47 | 50 | 52 | 50 | 52 | 51 | 56 | 54 | 51 | 47 | 45 | 44 | 43 | 41 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 38 | 36 | 37 | 39 | 40 | 40 | 40 | 39 | 37 | 37 | 38 | 39 | 36 | 34 | 33 | 33 | 32 | 31 | 31 | 32 | 31 | 40 | 40 | 39 |
| 29 | 31 | 29 | 29 | 29 | 26 | 29 | 29 | 28 | 28 | 30 | 30 | 33 | 34 | 34 | 35 | 35 | 34 | 31 | 30 | 29 | 29 | 30 | 31 | 36 |
| 30 | 30 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 30 | 31 | 31 | 33 | 33 | 34 | 33 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | 29 | 31 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | 33 |
| MEAN | 43. | 43. | 42. | 42. | 41. | 41. | 41. | 41. | 44. | 48. | 51. | 53. | 55. | 56. | 55. | 55. | 54. | 54. | 51. | 49. | 47. | 46. | 45. | 43. |

TOTAL NUMBER OF OBSERVATIONS = 6774 MEAN = 47.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF RELATIVE HUMIDITY AT 8 FEET
TRAILER NO. # 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 21 | 22 | 22 | 22 | 24 | 24 | 24 | 23 | 20 | 19 | 18 | 18 | 19 | 19 | 18 | 18 | 18 | 18 | 19 | 17 | 20 | 21 | 21 | 22 |
| 2 | 23 | 23 | 22 | 23 | 24 | 24 | 23 | 25 | 24 | 22 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 20 | 21 | 22 |
| 3 | 21 | 20 | 22 | 23 | 24 | 24 | 23 | 25 | 24 | 22 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 20 | 21 | 22 |
| 4 | 83 | 85 | 86 | 89 | 90 | 91 | 91 | 93 | 92 | 92 | 91 | 92 | 44 | 90 | 87 | 35 | 37 | 38 | 41 | 46 | 50 | 64 | 77 | 81 |
| 5 | 90 | 55 | 54 | 58 | 61 | 61 | 62 | 61 | 52 | 38 | 30 | 27 | 25 | 25 | 35 | 32 | 30 | 32 | 35 | 42 | 45 | 47 | 48 | 89 |
| 6 | 52 | 40 | 41 | 41 | 42 | 43 | 44 | 44 | 39 | 32 | 26 | 21 | 20 | 20 | 19 | 19 | 20 | 21 | 22 | 25 | 29 | 32 | 34 | 36 |
| 7 | 39 | 37 | 38 | 38 | 40 | 40 | 41 | 38 | 37 | 34 | 34 | 31 | 30 | 29 | 29 | 25 | 24 | 25 | 28 | 31 | 37 | 39 | 41 | 43 |
| 8 | 40 | 40 | 41 | 42 | 43 | 46 | 47 | 47 | 49 | 44 | 34 | 34 | 34 | 29 | 29 | 25 | 25 | 30 | 34 | 37 | 39 | 37 | 38 | 43 |
| 9 | 53 | 53 | 62 | 64 | 68 | 73 | 79 | 80 | 79 | 70 | 58 | 59 | 52 | 46 | 54 | 69 | 77 | 82 | 84 | 85 | 86 | 87 | 88 | 88 |
| 10 | 80 | 89 | 90 | 90 | 90 | 91 | 90 | 90 | 89 | 79 | 59 | 45 | 35 | 32 | 29 | 28 | 27 | 28 | 32 | 40 | 46 | 49 | 50 | 52 |
| 11 | 87 | 88 | 89 | 89 | 90 | 90 | 90 | 90 | 86 | 81 | 62 | 51 | 41 | 39 | 26 | 24 | 25 | 25 | 28 | 33 | 35 | 37 | 41 | 43 |
| 12 | 53 | 53 | 56 | 61 | 67 | 71 | 80 | 86 | 81 | 62 | 51 | 41 | 39 | 31 | 26 | 24 | 25 | 25 | 28 | 33 | 35 | 37 | 41 | 43 |
| 13 | 44 | 43 | 43 | 44 | 44 | 44 | 44 | 44 | 40 | 33 | 26 | 23 | 23 | 20 | 20 | 22 | 21 | 22 | 24 | 26 | 30 | 31 | 32 | 33 |
| 14 | 34 | 34 | 35 | 37 | 38 | 37 | 39 | 37 | 36 | 31 | 25 | 23 | 23 | 20 | 20 | 22 | 21 | 22 | 24 | 26 | 30 | 31 | 32 | 33 |
| 15 | 32 | 33 | 30 | 30 | 34 | 36 | 34 | 35 | 34 | 30 | 27 | 28 | 27 | 26 | 25 | 24 | 24 | 24 | 26 | 28 | 29 | 29 | 29 | 30 |
| 16 | 26 | 26 | 26 | 27 | 28 | 28 | 30 | 29 | 28 | 28 | 26 | 23 | 22 | 21 | 21 | 20 | 20 | 20 | 20 | 22 | 23 | 25 | 25 | 27 |
| 17 | 26 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 31 | 31 | 28 | 25 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 22 | 23 | 25 | 25 | 27 |
| 18 | 23 | 25 | 25 | 26 | 27 | 27 | 28 | 29 | 30 | 30 | 31 | 41 | 39 | 47 | 39 | 38 | 37 | 43 | 43 | 45 | 45 | 45 | 45 | 47 |
| 19 | 94 | 97 | 98 | 76 | 91 | 86 | 87 | 87 | 91 | 95 | 94 | 89 | 69 | 62 | 53 | 49 | 51 | 55 | 59 | 67 | 72 | 81 | 82 | 82 |
| 20 | 86 | 85 | 85 | 86 | 84 | 85 | 81 | 83 | 84 | 80 | 76 | 68 | 65 | 65 | 71 | 71 | 68 | 68 | 70 | 81 | 87 | 88 | 88 | 89 |
| 21 | 89 | 88 | 89 | 88 | 88 | 89 | 89 | 80 | 90 | 88 | 83 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 |
| 22 | 84 | 81 | 80 | 77 | 77 | 74 | 76 | 77 | 75 | 73 | 63 | 51 | 46 | 43 | 39 | 38 | 36 | 38 | 48 | 53 | 58 | 61 | 63 | 64 |
| 23 | 60 | 69 | 69 | 72 | 72 | 73 | 74 | 75 | 74 | 68 | 62 | 57 | 51 | 50 | 47 | 49 | 49 | 55 | 59 | 62 | 65 | 65 | 65 | 65 |
| 24 | 78 | 83 | 83 | 81 | 80 | 78 | 78 | 81 | 83 | 84 | 80 | 81 | 85 | 85 | 85 | 87 | 91 | 93 | 94 | 91 | 93 | 93 | 93 | 91 |
| 25 | 87 | 86 | 88 | 89 | 92 | 90 | 89 | 89 | 87 | 88 | 88 | 82 | 79 | 76 | 71 | 67 | 68 | 82 | 82 | 83 | 83 | 84 | 84 | 84 |
| 26 | 83 | 82 | 81 | 83 | 82 | 82 | 82 | 82 | 81 | 79 | 79 | 79 | 80 | 80 | 79 | 79 | 80 | 81 | 83 | 83 | 83 | 84 | 85 | 84 |
| 27 | 57 | 57 | 57 | 58 | 61 | 60 | 60 | 61 | 60 | 56 | 51 | 49 | 45 | 45 | 43 | 44 | 43 | 44 | 49 | 52 | 54 | 55 | 56 | 58 |

MEAN

TOTAL NUMBER OF OBSERVATIONS = 7168 MEAN = 53.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF RELATIVE HUMIDITY AT 30 FEET
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 21 | 22 | 22 | 23 | | 23 | 24 | 24 | 22 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 20 | 21 | | | 21 | 21 | 22 | 22 |
| 2 | 23 | 23 | 23 | 24 | 25 | 25 | 24 | 25 | 24 | 23 | 22 | 21 | 21 | 21 | | | | 19 | 19 | 20 | 20 | 20 | 20 | 21 |
| 3 | 21 | 20 | 22 | 23 | 23 | 24 | 24 | | | | | | | | | | | | | | | | | |
| 4 | 79 | 84 | 87 | 89 | 91 | 93 | 96 | 98 | 98 | 96 | 97 | 98 | 46 | 96 | 93 | 39 | 40 | 40 | 42 | 47 | 51 | 65 | 77 | 80 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 47 | 47 | 48 | 51 | 49 | 52 | 51 | 55 | 50 | 44 | 37 | 34 | 31 | 29 | 41 | 35 | 32 | 32 | 34 | 36 | 38 | 40 | 43 | 46 |
| 8 | 33 | 35 | 36 | 36 | 36 | 36 | 37 | 38 | 38 | 36 | 30 | 25 | 23 | 23 | 28 | 27 | 27 | 27 | 27 | 28 | 29 | 30 | 33 | 33 |
| 9 | 32 | 33 | 33 | 36 | 36 | 37 | 38 | 38 | 39 | 37 | 39 | 38 | 37 | 35 | 34 | 29 | 23 | 23 | 24 | 25 | 26 | 29 | 30 | 31 |
| 10 | 37 | 38 | 40 | 41 | 39 | 44 | 45 | 44 | 51 | 49 | 41 | 40 | 37 | 35 | | | | 28 | 30 | 33 | 35 | 35 | 39 | 35 |
| 11 | 55 | 59 | 63 | 69 | 70 | 74 | 77 | 80 | 81 | 70 | 75 | 74 | 66 | 58 | 64 | 76 | 28 | 33 | 37 | 39 | 38 | 35 | 41 | 46 |
| 12 | 95 | 95 | 95 | 96 | 96 | 97 | | | | | | | | | | | 85 | 93 | 92 | 90 | 91 | 90 | 92 | 95 |
| 13 | 86 | 85 | 81 | 82 | 84 | 85 | 84 | 84 | 88 | 81 | 71 | 56 | 45 | 89 | 86 | 82 | 77 | 76 | 77 | 78 | 80 | 81 | 83 | 87 |
| 14 | 46 | 49 | 55 | 59 | 62 | 69 | 73 | 76 | 74 | 70 | 65 | 48 | 48 | 39 | 35 | 33 | 31 | 30 | 32 | 35 | 38 | 41 | 45 | 46 |
| 15 | 37 | 35 | 37 | 38 | 37 | 36 | 38 | 35 | 38 | 34 | 29 | 27 | 26 | 38 | 31 | 27 | 27 | 27 | 28 | 28 | 30 | 33 | 36 | 37 |
| 16 | 31 | 32 | 33 | 34 | 33 | 33 | 34 | 32 | 34 | 33 | 28 | 26 | 26 | 23 | 23 | 23 | 23 | 23 | 24 | 25 | 27 | 20 | 30 | 30 |
| 17 | 31 | 32 | 32 | 32 | 35 | 37 | 36 | 35 | 37 | 33 | 30 | 26 | 26 | 24 | | | | | | 28 | 27 | 28 | 30 | 30 |
| 18 | 32 | 33 | 32 | 35 | 35 | 35 | 39 | 38 | 38 | 35 | 31 | 29 | | 26 | 25 | 24 | 24 | 25 | 26 | 27 | 25 | 25 | 27 | 32 |
| 19 | 28 | 28 | 28 | 28 | 30 | 30 | 30 | 31 | 30 | 30 | 28 | 25 | 25 | 24 | 23 | 22 | 22 | 22 | 24 | 24 | 26 | 27 | 28 | 28 |
| 20 | 28 | 28 | 29 | 30 | 31 | 33 | 33 | 34 | 35 | 32 | 28 | 24 | 24 | 23 | 24 | 23 | 38 | 45 | 80 | 87 | 92 | 87 | 87 | 87 |
| 21 | 30 | 27 | 28 | 29 | 29 | 29 | 31 | 33 | 34 | 34 | 35 | 45 | 45 | 50 | 41 | 39 | 47 | 50 | 55 | 64 | 67 | 74 | 75 | 78 |
| 22 | 97 | 99 | 100 | 100 | 87 | 82 | 76 | 81 | 86 | 95 | 97 | 90 | 66 | 58 | 49 | 69 | 66 | 66 | 67 | 83 | 89 | 89 | 89 | 90 |
| 23 | 85 | 85 | 85 | 84 | 82 | 82 | 78 | 80 | 83 | 78 | 74 | 66 | 63 | 64 | | | | | | | | | | |
| 24 | 90 | 87 | 89 | 88 | 87 | 90 | 89 | 88 | 89 | 89 | 84 | 77 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 82 | 79 | 78 | 73 | 73 | 69 | 69 | 70 | 69 | 69 | 61 | 49 | 44 | 40 | 36 | 61 | 57 | 56 | 61 | 67 | 71 | 74 | 77 | 79 |
| 27 | 63 | 67 | 67 | 69 | 70 | 71 | 70 | 69 | 71 | 68 | 62 | 57 | 50 | 49 | 46 | 48 | 48 | 35 | 46 | 51 | 54 | 56 | 61 | 61 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 78 | 84 | 84 | 81 | 80 | 78 | 77 | 82 | 85 | 87 | 84 | 83 | 88 | 87 | 89 | 93 | 98 | 100 | 100 | 94 | 96 | 97 | 95 | 94 |
| 30 | 89 | 86 | 87 | 89 | 88 | 85 | 85 | 86 | 85 | 84 | 87 | 80 | 75 | 72 | 67 | 62 | 70 | 81 | 81 | 81 | 81 | 82 | 82 | 82 |
| 31 | 82 | 81 | 80 | 81 | 81 | 81 | 82 | 81 | 80 | 78 | 78 | 77 | 79 | 79 | 78 | 78 | 79 | 81 | 84 | 84 | 83 | 85 | 86 | 85 |
| MEAN | 54. | 55. | 55. | 57. | 58. | 58. | 56. | 58. | 59. | 57. | 54. | 51. | 47. | 46. | 45. | 45. | 45. | 46. | 50. | 51. | 53. | 53. | 56. | 57. |

TOTAL NUMBER OF OBSERVATIONS = 7380 MEAN = 53.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF RELATIVE HUMIDITY AT 100 FEET
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 19 | 20 | 20 | 20 | | 21 | 21 | 22 | 22 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 20 | | 21 | 21 | 21 | 21 | 21 |
| 2 | 21 | 21 | 20 | 21 | 22 | 22 | 21 | 21 | 22 | 23 | 22 | 21 | 21 | 21 | | | | 19 | 19 | | 19 | 19 | 19 | 21 |
| 3 | 20 | 19 | 20 | 21 | 22 | 22 | 22 | | | | | | | | | | | | | | | | | 21 |
| 4 | 75 | 82 | 85 | 90 | 92 | 94 | 98 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96 | 38 | 39 | 38 | 40 | 46 | 50 | 62 | 76 | 78 |
| 5 | | | | | | | | | | | | | 45 | | | | | | | | | | | 90 |
| 6 | | | | | | | | | | | | | | | 40 | 33 | 30 | 30 | 32 | 32 | 34 | 36 | 39 | 41 |
| 7 | 41 | 44 | 43 | 46 | 44 | 45 | 46 | 48 | 47 | 42 | 35 | 32 | 29 | 28 | 25 | 26 | 26 | 25 | 25 | 25 | 26 | 27 | 29 | 29 |
| 8 | 28 | 30 | 31 | 31 | 32 | 31 | 33 | 33 | 33 | 34 | 28 | 23 | 21 | 21 | 21 | 21 | 22 | 21 | 22 | 23 | 27 | 26 | 28 | 27 |
| 9 | 28 | 29 | 30 | 31 | 33 | 34 | 35 | 35 | 37 | 36 | 39 | 37 | 38 | 35 | 34 | 29 | 26 | 27 | 28 | 30 | 31 | 31 | 35 | 33 |
| 10 | 35 | 35 | 37 | 38 | 36 | 40 | 42 | 40 | 49 | 48 | 41 | 40 | | | | | 29 | 33 | 36 | 37 | 35 | 32 | 37 | 40 |
| 11 | 55 | 59 | 62 | 69 | 71 | 74 | 78 | 80 | 81 | 80 | 77 | 76 | 67 | 58 | 62 | 73 | 84 | 92 | 90 | 86 | 87 | 87 | 91 | 92 |
| 12 | 93 | 94 | 94 | 94 | 95 | 97 | | | | | | | | | | | 77 | 75 | 75 | 74 | 74 | 75 | 76 | 82 |
| 13 | 83 | 83 | 76 | 77 | 78 | 80 | 82 | 80 | 81 | 80 | 69 | 54 | 43 | 36 | 33 | 31 | 29 | 28 | 29 | 32 | 33 | 35 | 40 | 42 |
| 14 | 42 | 45 | 52 | 56 | 60 | 67 | 73 | 77 | 75 | 72 | 66 | 53 | 48 | 37 | 29 | 25 | 25 | 25 | 25 | 26 | 28 | 29 | 31 | 32 |
| 15 | 32 | 32 | 31 | 33 | 33 | 31 | 33 | 31 | 30 | 31 | 27 | 25 | | 21 | 21 | 22 | 21 | 21 | 23 | 22 | 24 | 25 | 26 | 27 |
| 16 | 25 | 27 | 29 | 31 | 30 | 29 | 30 | 29 | 30 | 31 | 26 | 25 | 26 | 23 | 23 | 25 | 25 | | 25 | 27 | 27 | 27 | 28 | 28 |
| 17 | 30 | 31 | 30 | 30 | 33 | 34 | 34 | 34 | 34 | 33 | 30 | 30 | 28 | 27 | 26 | 25 | 25 | 25 | 26 | 27 | 28 | 28 | 29 | 30 |
| 18 | 31 | 31 | 31 | 33 | 33 | 33 | 30 | 36 | 35 | 34 | 31 | 30 | 28 | 26 | 25 | 24 | 24 | 23 | 23 | 24 | 25 | 25 | 26 | 26 |
| 19 | 27 | 27 | 27 | 26 | 28 | 28 | 28 | 29 | 28 | 29 | 28 | 26 | 25 | 24 | 23 | 22 | 22 | 22 | 22 | 24 | 25 | 25 | 26 | 27 |
| 20 | 25 | 27 | 27 | 28 | 29 | 30 | 31 | 31 | 31 | 30 | 27 | 25 | 24 | 23 | 24 | 23 | 23 | 23 | 24 | 26 | 26 | 27 | 28 | 28 |
| 21 | 28 | 26 | 27 | 28 | 28 | 29 | 30 | 32 | 34 | 34 | 37 | 40 | 40 | 53 | 44 | 41 | 39 | 46 | 81 | 88 | 93 | 86 | 81 | 85 |
| 22 | 97 | 99 | 100 | 100 | 88 | 73 | 76 | 74 | 76 | 88 | 92 | 85 | 64 | 55 | 47 | 43 | 44 | 47 | 52 | 59 | 62 | 67 | 68 | 75 |
| 23 | 81 | 76 | 81 | 78 | 77 | 77 | 73 | 74 | 76 | 75 | 72 | 65 | 61 | 63 | | 66 | 66 | 65 | 67 | 81 | 88 | 86 | 88 | 88 |
| 24 | 86 | 83 | 85 | 85 | 85 | 86 | 87 | 85 | 85 | 88 | 84 | 77 | | | | | | | | | | | | 85 |
| 25 | | | | | | | | | | | | | | | | 56 | 53 | 51 | 56 | 61 | 65 | 68 | 72 | 75 |
| 26 | 78 | 69 | 68 | 61 | 61 | 57 | 59 | 62 | 59 | 60 | 53 | 43 | 38 | 35 | 31 | 31 | 28 | 30 | 40 | 45 | 47 | 50 | 53 | 54 |
| 27 | 55 | 53 | 59 | 60 | 64 | 66 | 63 | 62 | 63 | 63 | 59 | 52 | 46 | 44 | 42 | 44 | 43 | 51 | 55 | 59 | 63 | 65 | 66 | 56 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | 69 |
| 29 | 75 | 82 | 80 | 74 | 73 | 72 | 70 | 75 | 82 | 85 | 82 | 81 | 87 | 86 | 87 | 94 | 98 | 100 | 99 | 88 | 91 | 92 | 86 | 85 |
| 30 | 80 | 79 | 79 | 80 | 78 | 77 | 77 | 77 | 78 | 77 | 79 | 73 | 69 | 66 | 60 | 55 | 64 | 77 | 76 | 75 | 76 | 77 | 78 | 78 |
| 31 | 77 | 76 | 76 | 76 | 76 | 76 | 78 | 77 | 76 | 74 | 73 | 73 | 76 | 75 | 74 | 74 | 75 | 77 | 80 | 81 | 79 | 82 | 83 | 81 |
| MEAN | 51. | 52. | 52. | 54. | 55. | 54. | 53. | 54. | 55. | 55. | 52. | 49. | 47. | 45. | 42. | 43. | 43. | 45. | 47. | 49. | 50. | 50. | 52. | 54. |

TOTAL NUMBER OF OBSERVATIONS = 7419 MEAN = 50.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF RELATIVE HUMIDITY AT 200 FEET
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 26 | 27 | 28 | 28 | | 28 | 28 | 28 | 27 | 27 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 26 | | | 27 | 28 | 27 | 28 |
| 2 | 26 | 28 | 27 | 29 | 29 | 29 | 28 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | | | | 24 | | | 25 | 26 | 25 | 27 |
| 3 | 27 | 25 | 27 | 28 | 29 | 30 | 29 | | | | | | | | | | | | | | | | | |
| 4 | 85 | 88 | 94 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 45 | 46 | 46 | 48 | 52 | 57 | 70 | 83 | 86 |
| 5 | | | | | | | | | | | | | | | | 98 | 85 | 77 | 80 | 89 | 94 | 97 | 100 | 100 |
| 6 | 54 | 55 | 55 | 57 | 56 | 57 | 58 | 57 | 50 | 45 | 38 | 36 | 34 | 33 | 43 | 39 | 37 | 38 | 40 | 42 | 44 | 47 | 49 | 50 |
| 7 | 38 | 38 | 39 | 40 | 42 | 43 | 45 | 47 | 41 | 38 | 34 | 29 | 28 | 28 | 32 | 32 | 31 | 32 | 32 | 33 | 35 | 37 | 38 | 39 |
| 8 | 39 | 37 | 39 | 41 | 42 | 43 | 43 | 42 | 42 | 42 | 44 | 43 | 42 | 40 | 27 | 27 | 29 | 28 | 30 | 31 | 35 | 35 | 37 | 36 |
| 9 | 43 | 43 | 45 | 46 | 47 | 48 | 49 | 49 | 53 | 49 | 45 | 44 | 42 | 40 | 35 | 35 | 33 | 35 | 36 | 37 | 38 | 39 | 41 | 42 |
| 10 | 64 | 69 | 69 | 73 | 77 | 86 | 92 | 91 | 91 | 85 | 76 | 76 | 69 | 62 | 75 | 89 | 36 | 40 | 43 | 46 | 46 | 41 | 43 | 54 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 66 | 89 | 100 | 100 | 100 | 97 | 100 | 100 | 100 | 100 |
| 12 | 96 | 96 | 95 | 92 | 92 | 95 | 96 | 94 | 88 | 77 | 66 | 54 | 45 | 91 | 84 | 81 | 77 | 79 | 81 | 81 | 80 | 82 | 84 | 91 |
| 13 | 55 | 55 | 59 | 63 | 68 | 76 | 81 | 85 | 81 | 73 | 64 | | 50 | 41 | 38 | 36 | 35 | 35 | 38 | 42 | 44 | 46 | 49 | 52 |
| 14 | 41 | 41 | 42 | 43 | 44 | 45 | 44 | 41 | 38 | 36 | 34 | 32 | 33 | 29 | 35 | 32 | 33 | 33 | 34 | 36 | 39 | 40 | 40 | 42 |
| 15 | 37 | 37 | 38 | 40 | 42 | 41 | 39 | 39 | 37 | 36 | 33 | 32 | 33 | 31 | 29 | | 27 | 29 | 31 | 32 | 33 | 35 | 36 | 36 |
| 16 | 36 | 35 | 36 | 36 | 38 | 40 | 40 | 40 | 40 | 39 | 38 | 37 | 34 | 31 | 33 | 32 | 32 | 32 | 33 | 34 | 34 | 35 | 35 | 35 |
| 17 | 40 | 41 | 41 | 41 | 43 | 43 | 45 | 45 | 41 | 38 | 36 | 35 | 34 | 33 | 31 | 32 | 30 | 30 | 30 | 31 | 33 | 34 | 34 | 35 |
| 18 | 36 | 35 | 35 | 35 | 36 | 37 | 37 | 38 | 37 | 35 | 34 | 32 | 32 | 31 | 29 | 31 | 29 | 29 | 29 | 31 | 33 | 34 | 35 | 35 |
| 19 | 35 | 35 | 35 | 36 | 38 | 40 | 39 | 39 | 37 | 35 | 34 | 32 | 32 | 31 | 30 | 29 | 29 | 29 | 30 | 31 | 32 | 34 | 35 | 35 |
| 20 | 35 | 33 | 34 | 36 | 36 | 36 | 37 | 40 | 37 | 35 | 33 | 31 | 31 | 31 | 31 | 31 | 30 | 30 | 32 | 33 | 34 | 35 | 35 | 35 |
| 21 | 99 | 100 | 100 | 100 | 91 | 86 | 87 | 85 | 85 | 87 | 88 | 85 | 53 | 58 | 51 | 48 | 48 | 53 | 69 | 98 | 100 | 98 | 96 | 95 |
| 22 | 87 | 89 | 90 | 88 | 85 | 85 | 83 | 82 | 83 | 83 | 80 | 85 | 72 | 65 | 54 | 51 | 53 | 56 | 60 | 67 | 75 | 78 | 79 | 83 |
| 23 | 97 | 94 | 95 | 96 | 96 | 95 | 97 | 94 | 95 | 94 | 88 | 77 | 69 | 70 | | 75 | 75 | 75 | 76 | 89 | 97 | 97 | 96 | 98 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 94 | 88 | 87 | 81 | 80 | 79 | 79 | 80 | 76 | 69 | 64 | 56 | 51 | 47 | | 64 | 64 | 63 | 68 | 74 | 81 | 86 | 91 | 95 |
| 26 | 75 | 76 | 77 | 76 | 78 | 81 | 82 | 84 | 78 | 70 | 66 | 61 | 56 | 57 | 43 | 44 | 42 | 44 | 54 | 60 | 65 | 68 | 70 | 73 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 88 | 93 | 92 | 86 | 84 | 84 | 83 | 85 | 90 | 91 | 90 | 90 | 96 | 98 | 98 | 100 | 100 | 100 | 100 | 99 | 100 | 100 | 79 | 83 |
| 29 | 96 | 97 | 97 | 96 | 97 | 96 | 94 | 94 | 94 | 90 | 91 | 83 | 79 | 77 | 72 | 69 | 76 | 88 | 100 | 99 | 100 | 100 | 99 | 98 |
| 30 | 90 | 89 | 89 | 89 | 89 | 90 | 91 | 91 | 90 | 88 | 87 | 86 | 88 | 87 | 87 | 87 | 89 | 91 | 88 | 89 | 89 | 90 | 91 | 91 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 61. | 61. | 62. | 63. | 64. | 64. | 63. | 64. | 63. | 60. | 57. | 55. | 53. | 52. | 49. | 51. | 50. | 52. | 56. | 58. | 60. | 60. | 62. | 64. |

TOTAL NUMBER OF OBSERVATIONS = 7417 MEAN = 59.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND DIRECTION
TRAILER NO. = 20 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 89 | 117 | 127 | 132 | 132 | 114 | 96 | 97 | 129 | 131 | 112 | 308 | 304 | 322 | 329 | 304 | 299 | 293 | 328 | 113 | 128 | 102 | 105 | 95 | 99 |
| 2 | 100 | 97 | 91 | 108 | 101 | 101 | 92 | 96 | 131 | 137 | | | | 213 | 246 | 204 | 195 | 187 | 194 | 98 | 78 | 121 | 114 | 94 | 127 |
| 3 | 105 | 85 | 93 | 102 | 81 | 63 | 72 | 93 | 109 | 115 | 162 | 161 | 187 | 206 | 201 | 128 | 177 | 142 | 99 | 119 | 100 | 111 | 107 | 175 | 123 |
| 4 | 87 | 75 | 128 | 117 | 344 | 62 | 72 | 101 | 104 | 333 | 260 | 290 | 290 | 298 | 280 | 242 | 214 | 174 | 120 | 313 | 58 | 333 | 63 | 115 | 65 |
| 5 | 94 | 85 | 97 | 87 | 111 | 129 | 360 | 88 | 121 | 270 | 310 | 271 | 276 | 229 | 70 | 85 | 127 | 106 | 348 | 85 | 63 | 93 | 82 | 97 | 89 |
| 6 | 88 | 89 | 98 | 66 | 67 | 75 | 156 | 330 | 26 | 114 | 154 | 293 | 274 | 270 | 280 | 289 | 313 | 290 | 350 | 100 | 104 | 105 | 105 | 106 | 70 |
| 7 | 111 | 116 | 114 | 125 | 108 | 118 | 108 | 113 | 102 | 154 | 289 | 283 | 284 | 279 | 301 | 284 | 274 | 285 | 4 | 92 | 98 | 102 | 106 | 121 | 111 |
| 8 | 111 | 104 | 115 | 117 | 111 | 109 | 107 | 109 | 115 | 139 | 323 | 315 | 226 | 149 | 313 | 100 | 61 | 350 | 358 | 116 | 99 | 98 | 101 | 98 | 100 |
| 9 | 110 | 113 | 120 | 85 | 95 | 117 | 128 | 122 | 106 | 108 | 201 | 104 | 203 | 211 | 215 | | | 241 | 201 | 137 | 81 | 100 | 105 | 97 | 136 |
| 10 | 101 | 96 | 107 | 105 | 103 | 87 | 78 | 117 | 112 | 121 | 103 | 117 | 44 | 311 | 322 | 214 | 311 | 290 | 342 | 86 | 95 | 98 | 67 | 318 | 85 |
| 11 | 117 | 107 | 72 | 83 | 126 | 84 | 104 | 105 | 90 | 45 | 322 | 322 | 93 | 102 | 46 | 93 | 62 | 91 | 110 | 97 | 104 | 26 | 24 | 97 | 62 |
| 12 | 110 | 77 | 76 | 77 | 90 | 90 | 90 | 37 | 4 | 302 | 265 | 268 | 201 | 321 | 298 | 272 | 267 | 179 | 185 | 59 | 68 | 71 | 37 | 92 | 50 |
| 13 | 86 | 99 | 100 | 98 | 93 | 97 | 103 | 96 | 95 | 116 | 303 | 280 | 350 | 347 | 306 | 274 | 272 | 341 | 50 | 110 | 92 | 117 | 113 | 115 | 82 |
| 14 | 113 | 83 | 93 | 103 | 106 | 95 | 95 | 100 | 95 | 92 | 329 | 280 | 271 | 304 | 321 | 322 | 300 | 309 | 13 | 95 | 112 | 111 | 99 | 106 | 74 |
| 15 | 113 | 125 | 97 | 95 | 105 | 85 | 93 | 97 | 93 | 131 | 318 | 291 | 285 | 273 | 271 | 282 | 288 | 303 | 60 | 93 | 88 | 102 | 92 | 87 | 85 |
| 16 | 100 | 88 | 107 | 107 | 99 | 96 | 93 | 120 | 132 | 122 | 278 | 316 | 345 | 337 | 339 | 10 | 37 | 97 | 100 | 95 | 101 | 101 | 95 | 101 | 84 |
| 17 | 100 | 103 | 99 | 90 | 107 | 99 | 110 | 139 | 129 | 301 | 276 | 275 | 276 | 269 | 268 | 317 | 21 | 117 | 104 | 106 | 108 | 111 | 120 | 114 | 110 |
| 18 | 105 | 102 | 109 | 112 | 109 | 107 | 120 | 129 | 102 | 286 | | | | 271 | | 299 | 348 | 339 | 37 | 109 | 75 | 101 | 102 | 101 | 93 |
| 19 | 107 | 97 | 106 | 107 | 104 | 101 | 107 | 105 | 102 | 127 | 239 | 304 | 202 | 274 | 279 | 250 | 254 | 244 | 111 | 82 | 93 | 98 | 96 | 105 | 123 |
| 20 | 107 | 107 | 93 | 109 | 116 | 113 | 89 | 83 | 119 | 125 | 165 | 260 | 251 | 227 | 210 | 220 | 201 | 242 | 157 | 91 | 90 | 95 | 85 | 91 | 128 |
| 21 | 116 | 127 | 97 | 110 | 100 | 87 | 81 | 82 | 119 | 144 | 190 | 146 | 168 | 161 | 161 | 147 | 135 | 354 | 99 | 116 | 90 | 75 | 66 | 281 | 118 |
| 22 | 252 | 271 | 137 | 120 | 137 | 311 | 319 | 324 | 351 | 304 | 331 | 71 | 302 | 86 | 21 | 354 | 323 | 37 | 342 | 48 | 67 | 73 | 74 | 103 | 15 |
| 23 | 111 | 101 | 113 | 126 | 126 | 113 | 124 | 129 | 134 | 139 | 337 | 201 | 164 | 168 | 233 | 201 | 271 | 28 | 310 | 71 | 110 | 111 | 84 | 97 | 126 |
| 24 | 104 | 93 | 66 | 97 | 114 | 91 | 105 | 112 | 127 | 140 | 285 | 310 | 360 | 24 | 11 | 351 | 312 | 320 | 360 | 325 | 301 | 41 | 84 | 110 | 49 |
| 25 | 129 | 111 | 114 | 114 | 115 | 109 | 123 | 112 | 128 | 62 | 308 | | 270 | 275 | 267 | 272 | 270 | 276 | 16 | 106 | 61 | 93 | 100 | 89 | 104 |
| 26 | 97 | 101 | 95 | 91 | 91 | 112 | 104 | 101 | 84 | 124 | 112 | 166 | 228 | 202 | 260 | 293 | 317 | 350 | 37 | 110 | 103 | 90 | 108 | 110 | 104 |
| 27 | 122 | 114 | 107 | 114 | 95 | 96 | 109 | 95 | 109 | 133 | 292 | 275 | 276 | 267 | 343 | 347 | 300 | 287 | 299 | 288 | 311 | 63 | 87 | 81 | 55 |
| 28 | 80 | 118 | 107 | 119 | 126 | 128 | 130 | 128 | 131 | 123 | 90 | 197 | 189 | 174 | 176 | 226 | 234 | 148 | 84 | 69 | 118 | 126 | 110 | 113 | 132 |
| 29 | 113 | 109 | 60 | 61 | 96 | 323 | 318 | 335 | 345 | 119 | 56 | | 280 | 328 | 287 | 329 | | | | | | | | | 16 |
| 30 | 110 | 95 | 98 | 124 | 69 | 117 | 117 | 119 | 112 | 109 | 126 | 70 | 239 | 218 | 212 | 269 | 206 | 175 | 118 | 87 | 99 | 81 | 81 | 86 | 119 |
| 31 | 115 | 116 | 93 | 50 | 91 | 100 | 91 | 105 | 106 | 111 | 210 | 191 | | 217 | 222 | 205 | 206 | 259 | 239 | 76 | 110 | 85 | 104 | 113 | 130 |
| MEAN | 106 | 102 | 270 | 270 | 103 | 98 | 99 | 101 | 105 | 121 | 279 | 266 | 263 | 258 | 201 | 275 | 276 | 286 | 48 | 92 | 92 | 93 | 94 | 103 | |

TOTAL NUMBER OF OBSERVATIONS = 8653 MEAN = 102.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND DIRECTION
TRAILER NO. # 21 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 95 | 163 | 39 | 10 | 82 | 106 | 347 | 81 | 322 | 298 | 304 | 295 | 292 | 330 | 281 | 267 | 220 | 250 | 301 | 99 | 101 | 108 | 108 | 106 | 91 |
| 2 | 117 | 69 | 22 | 71 | 83 | 97 | 86 | 339 | 327 | 294 | 297 | 294 | 246 | 214 | 188 | 160 | 160 | 146 | 137 | 136 | 134 | 141 | 156 | 170 | 136 |
| 3 | 155 | 171 | 172 | 328 | 60 | 103 | 124 | 129 | 336 | 324 | 157 | 167 | 161 | 167 | 160 | 151 | 161 | 130 | 136 | 145 | 115 | 129 | 131 | 128 | 141 |
| 4 | 138 | 127 | 137 | 145 | 137 | 143 | 69 | 159 | 153 | 178 | 90 | 274 | 232 | 274 | 265 | 276 | 228 | 169 | 145 | 331 | 351 | 138 | 129 | 120 | 162 |
| 5 | 124 | 131 | 129 | 137 | 114 | 127 | 141 | 116 | 100 | 338 | 343 | 332 | 311 | 317 | 294 | 315 | 337 | 335 | 360 | 130 | 134 | 135 | 136 | 135 | 96 |
| 6 | 145 | 146 | 133 | 131 | 152 | 166 | 145 | 147 | 147 | 105 | 342 | 334 | 316 | 317 | 318 | 322 | 319 | 332 | 120 | 127 | 128 | 132 | 141 | 138 | 132 |
| 7 | 150 | 163 | 124 | 98 | 137 | 122 | 117 | 139 | 120 | 340 | 338 | 328 | 327 | 353 | 313 | 301 | 329 | 330 | 335 | 112 | 130 | 126 | 136 | 151 | 95 |
| 8 | 147 | 131 | 129 | 149 | 154 | 93 | 113 | 61 | 14 | 350 | 325 | 317 | 333 | 330 | 347 | 318 | 322 | 335 | 335 | 72 | 135 | 135 | 137 | 154 | 58 |
| 9 | 163 | 154 | 141 | 148 | 133 | 134 | 155 | 155 | 149 | 321 | 321 | 339 | 345 | 255 | 102 | 200 | 225 | 167 | 138 | 138 | 134 | 145 | 157 | 152 | 155 |
| 10 | 121 | 144 | 150 | 122 | 84 | 101 | 134 | 167 | 112 | 299 | 321 | 339 | 345 | 255 | 102 | 344 | 318 | 295 | 108 | 133 | 131 | 147 | 317 | 106 | 111 |
| 11 | 152 | 137 | 154 | 130 | 124 | 135 | 124 | 158 | 134 | 77 | 58 | 163 | 138 | 61 | 137 | 129 | 124 | 141 | 122 | 136 | 117 | 152 | 298 | 129 | 128 |
| 12 | 129 | 159 | 140 | 127 | 141 | 171 | 92 | 22 | 358 | 353 | 527 | 300 | 259 | 204 | 147 | 235 | 211 | 220 | 201 | 145 | 130 | 117 | 122 | 113 | 153 |
| 13 | 124 | 124 | 132 | 134 | 140 | 161 | 143 | 66 | 100 | 46 | 319 | 309 | 315 | 302 | 338 | 296 | 297 | 330 | 360 | 122 | 123 | 129 | 152 | 119 | 100 |
| 14 | 162 | 93 | 123 | 136 | 147 | 136 | 128 | 133 | 137 | 93 | 360 | 326 | 331 | 334 | 333 | 322 | 324 | 323 | 53 | 130 | 130 | 158 | 151 | 143 | 129 |
| 15 | 125 | 34 | 101 | 49 | 99 | 124 | 74 | 114 | 36 | 337 | 330 | 328 | 318 | 304 | 317 | 340 | 326 | 324 | 328 | 72 | 124 | 137 | 153 | 161 | 52 |
| 16 | 101 | 39 | 122 | 140 | 145 | 126 | 40 | 31 | 125 | 136 | 323 | 330 | 317 | 324 | 302 | 307 | 309 | 338 | 328 | 130 | 124 | 137 | 141 | 141 | 66 |
| 17 | 159 | 147 | 171 | 42 | 83 | 120 | 124 | 111 | 122 | 92 | 326 | 331 | 334 | 333 | 329 | 322 | 324 | 323 | | | | | | | 46 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 154 |
| 19 | 141 | 158 | 121 | 23 | 130 | 116 | 126 | 34 | 92 | 357 | | 338 | 333 | 274 | 233 | 215 | 179 | 171 | 144 | 133 | 136 | 170 | 169 | 154 | 155 |
| 20 | 168 | 174 | 186 | 41 | 145 | 183 | 155 | 148 | 162 | 359 | 342 | 109 | 156 | 169 | 170 | 172 | 174 | 166 | 138 | 139 | | 174 | 177 | 173 | 145 |
| 21 | 170 | 160 | 161 | 152 | 145 | 143 | 123 | 145 | 108 | 164 | 158 | 151 | 164 | 149 | 161 | 155 | 160 | 343 | 63 | 137 | 150 | 9 | 348 | 342 | 159 |
| 22 | 341 | 314 | 261 | 165 | 283 | 344 | 334 | 324 | 332 | 7 | 227 | 131 | 133 | 112 | 194 | 47 | 79 | 47 | 315 | 127 | 80 | 123 | 133 | 136 | 58 |
| 23 | 160 | 122 | 87 | 124 | 152 | 128 | 144 | 149 | 190 | 333 | 342 | 116 | 161 | 169 | 167 | 134 | 158 | 200 | 186 | 124 | 138 | 124 | 94 | 131 | 142 |
| 24 | 147 | 167 | 163 | 161 | 358 | 41 | 344 | 5 | 270 | 320 | 326 | 339 | 313 | 341 | 350 | 336 | 342 | 336 | 331 | 325 | 273 | 306 | 144 | 138 | 331 |
| 25 | 142 | 153 | 143 | 162 | 89 | 122 | 90 | 94 | 114 | 128 | 243 | 358 | 333 | 335 | 330 | 322 | 327 | 321 | 334 | 31 | 136 | 127 | 139 | 142 | 96 |
| 26 | 121 | 151 | 60 | 51 | 101 | 94 | 100 | 131 | 36 | 14 | 339 | 332 | 336 | 167 | 97 | 121 | 340 | 348 | 339 | 53 | 125 | 130 | 148 | 148 | 82 |
| 27 | 145 | 168 | 158 | 112 | 138 | 133 | 48 | 91 | 121 | 332 | 332 | 326 | 336 | 335 | 334 | 340 | 315 | 308 | 335 | 105 | 139 | 128 | 121 | 134 | 77 |
| 28 | 129 | 170 | 31 | | | | | | | | | | | | | | | | | | | | | | 137 |
| 29 | 97 | 140 | 132 | 124 | 60 | 56 | 108 | 275 | 102 | 98 | 125 | 124 | 9 | 4 | 294 | 31 | 133 | 149 | 190 | 136 | 147 | 82 | 38 | | 137 |
| 30 | 120 | 120 | 123 | 138 | 104 | 115 | 136 | 157 | 100 | 119 | 182 | 265 | 182 | 169 | 195 | 179 | 143 | 145 | 116 | 114 | 109 | 111 | 115 | 108 | 112 |
| 31 | 126 | 124 | 129 | 144 | 137 | 137 | 144 | 132 | 129 | 140 | 150 | 155 | 166 | 160 | 143 | 122 | 141 | 97 | 110 | 131 | 119 | 112 | 114 | 111 | 133 |
| MEAN | 136 | 139 | 131 | 117 | 119 | 122 | 111 | 114 | 106 | 13 | 327 | 319 | 297 | 288 | 249 | 272 | 246 | 292 | 87 | 118 | 127 | 130 | 135 | 138 | |

TOTAL NUMBER OF OBSERVATIONS = 8153 MEAN = 125.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND DIRECTION
TRAILER NO. = 22 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | 24 MEA |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
| 1 | 88 | 90 | 90 | 91 | 90 | 93 | 91 | 95 | 84 | 92 | | | 275 | 274 | 268 | 265 | 270 | 268 | 302 | 82 | 105 | 99 | 102 | 113 | 94 |
| 2 | 114 | 117 | 115 | 112 | 115 | 113 | 117 | 111 | 107 | 112 | 99 | 258 | 263 | 265 | 181 | 244 | 254 | 217 | 114 | 119 | 38 | 107 | 106 | 103 | 129 |
| 3 | 105 | 97 | 109 | 104 | 97 | 104 | 110 | 107 | 105 | 105 | 120 | 132 | 120 | 156 | 168 | 109 | 158 | 109 | 99 | 163 | 104 | 92 | 113 | 109 | 117 |
| 4 | 88 | 105 | 119 | 106 | 103 | 121 | 145 | 38 | 21 | 299 | 270 | 273 | 295 | 292 | 296 | 265 | 242 | 248 | 131 | 58 | 303 | 183 | | | 216 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 104 | 111 | 104 | 104 | 73 | 98 | 86 | 89 | 66 | 90 | 105 | 103 | 273 | 135 | 128 | 152 | 197 | 282 | 288 | 124 | 317 | 86 | 109 | 93 | 91 |
| 106 | 101 | 113 | 93 | 93 | 81 | 87 | 83 | 78 | 91 | 96 | 249 | 231 | 304 | 87 | 353 | 326 | 10 | 307 | 286 | 100 | 85 | 50 | 61 | 85 |
| 111 | 115 | 115 | 109 | 111 | 118 | 114 | 114 | 114 | 112 | 111 | 100 | 162 | 256 | 233 | 137 | 273 | 264 | 265 | 353 | 85 | 18 | 65 | 104 | 116 |
| 113 | 114 | 111 | 113 | 104 | 72 | 116 | 119 | 119 | 118 | 108 | 90 | 281 | 270 | 296 | 313 | 301 | 282 | 268 | 272 | 84 | 86 | 82 | 77 | 100 |
| 106 | 118 | 100 | 89 | 105 | 104 | 116 | 106 | 112 | 112 | 106 | 95 | 312 | 249 | 139 | 133 | 174 | 171 | 287 | 110 | 83 | 111 | 108 | 106 | 109 |
| 82 | 102 | 107 | 4 | 96 | 111 | 283 | 333 | 282 | 84 | 107 | 275 | 276 | 270 | 302 | 270 | 104 | 162 | 97 | 121 | 99 | 106 | 100 | 107 | 109 |
| 104 | 108 | 109 | 113 | 103 | 108 | 79 | 40 | 73 | 93 | 97 | 242 | 213 | 236 | 159 | 136 | 120 | 111 | 111 | 97 | 89 | 351 | 9 | 111 | 99 |
| 88 | 93 | 83 | 88 | 88 | 69 | 85 | 107 | 109 | 67 | 102 | 116 | 42 | 255 | 240 | 243 | 297 | 300 | 313 | 295 | 69 | 98 | 101 | 82 | 100 |

MEAN 101.106.107. 95. 98.101.107. 96. 90.100.110.262.259.247.225.246.249.260. 98. 90. 67. 90. 98.103.

TOTAL NUMBER OF OBSERVATIONS = 3531 MEAN = 106.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND DIRECTION
TRAILER NO. 24 PERIOD(10/1/74 TO 10/31/74)

2005

[illegible]

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

NAME

II C-189

DIURNAL VARIATION OF WIND DIRECTION AT 8 FEET
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 114 | 195 | 187 | 227 | | 216 | 98 | 73 | 20 | 286 | 347 | 358 | 335 | 344 | 326 | 309 | 321 | 298 | | | | | | |
| 2 | 164 | 143 | 157 | 237 | 189 | 263 | 190 | 191 | 95 | 65 | 221 | 225 | 226 | 231 | 210 | | | 224 | 224 | 212 | 219 | 165 | 63 | 112 |
| 3 | 35 | 287 | 56 | 69 | 89 | 112 | 54 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 213 | 242 | 215 | 213 | 163 | 202 | 250 | 264 | 290 | 303 | 305 | 285 | 304 | 264 | 335 | 211 | 209 | 200 | 200 | 256 | 215 | 203 | 136 | 163 |
| 6 | 188 | | | | | | | | | | | | | | | 340 | 328 | 29 | 169 | 216 | 225 | 227 | 212 | 143 |
| 7 | 227 | 237 | 219 | 198 | 197 | 226 | 279 | 230 | 81 | 6 | 350 | 325 | 346 | 348 | 296 | 312 | 324 | 301 | 236 | 218 | 219 | 194 | 209 | |
| 8 | 222 | 215 | 123 | 224 | 234 | 211 | 163 | 198 | 56 | 53 | 46 | 327 | 21 | 96 | 26 | 325 | 324 | 294 | 340 | 195 | 223 | 212 | 107 | 230 |
| 9 | 183 | 212 | 126 | 94 | 96 | 146 | 169 | 171 | 72 | 197 | 200 | 203 | 213 | 210 | 208 | 348 | 353 | 325 | 318 | 218 | 213 | 209 | 153 | 233 |
| 10 | 90 | 255 | 109 | 156 | 224 | 227 | 165 | 198 | 168 | 101 | 230 | 13 | | | | 230 | 224 | 229 | 223 | 221 | 222 | 211 | 231 | 276 |
| 11 | 227 | 167 | 260 | 226 | 165 | 211 | 222 | 182 | 244 | 304 | 335 | 333 | 54 | 139 | 25 | 12 | 329 | 94 | 169 | 167 | 130 | 124 | 302 | 167 |
| 12 | 212 | 225 | 226 | 214 | 235 | 89 | | | | | | | | | | 330 | 5 | 293 | 238 | 212 | 210 | 177 | 243 | 215 |
| 13 | 222 | 235 | 224 | 178 | 220 | 161 | 232 | 256 | 269 | 47 | 307 | 330 | 351 | 301 | 314 | 307 | 331 | 339 | 338 | 219 | 182 | 252 | 205 | 279 |
| 14 | 218 | 249 | 253 | 232 | 260 | 250 | 231 | 207 | 224 | 357 | 10 | 333 | 317 | 337 | 351 | 343 | 326 | 341 | 278 | 205 | 174 | 216 | 231 | 205 |
| 15 | 193 | 220 | 226 | 169 | 203 | 244 | 246 | 222 | 85 | 84 | 39 | 9 | 22 | 325 | 355 | 343 | 7 | 329 | 228 | 232 | 285 | 326 | 174 | 141 |
| 16 | 121 | 254 | 262 | 175 | 217 | 244 | 159 | 240 | 215 | 65 | 96 | 111 | 164 | 340 | 349 | 352 | 15 | 339 | 329 | 218 | 238 | 228 | 214 | 240 |
| 17 | 211 | 275 | 210 | 290 | 238 | 202 | 179 | 249 | 115 | 80 | 93 | 329 | 334 | 301 | 309 | 327 | 338 | 341 | 341 | 219 | 220 | 213 | 202 | 117 |
| 18 | | | | | | | | | | | | | | | | | | 335 | | 228 | 225 | 235 | 227 | 197 |
| 19 | 237 | 149 | 183 | 242 | 224 | 191 | 228 | 176 | 165 | 88 | 36 | 223 | 223 | 251 | 268 | 269 | 264 | 220 | 220 | 229 | 259 | 256 | 139 | 146 |
| 20 | 160 | 161 | 355 | 4 | 107 | 132 | 130 | 115 | 74 | 58 | 275 | 240 | 243 | 229 | 231 | 225 | 232 | 227 | 227 | 224 | 217 | 197 | 185 | 185 |
| 21 | 174 | 208 | 193 | 201 | 203 | 198 | 192 | 192 | 193 | 188 | 207 | 191 | 204 | 205 | 207 | 184 | 191 | 258 | 59 | 144 | 146 | 145 | 194 | 192 |
| 22 | 283 | 238 | 313 | 136 | 177 | 181 | 24 | 157 | 236 | 322 | 192 | 30 | 199 | 243 | 229 | 192 | 249 | 11 | 322 | 281 | 216 | 208 | 225 | 159 |
| 23 | 162 | 132 | 109 | 171 | 186 | 200 | 171 | 113 | 101 | 121 | 43 | 181 | | | | | | | | | | | | 144 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | |

MEAN 193,215,270,270,196,199,191,195,138, 51,344,300,289,281,306,306,305,303,257,216,213,204,199,195.

TOTAL NUMBER OF OBSERVATIONS = 5427 MEAN = 223.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND DIRECTION AT 30 FEET
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 125 | 162 | 148 | 199 | | 198 | 79 | 75 | 17 | 288 | 343 | 354 | 342 | 342 | 323 | 300 | 322 | 302 | | 256 | 233 | 202 | 109 | 143 | 304 |
| 2 | 190 | 91 | 135 | 233 | 134 | 183 | 191 | 145 | 101 | 71 | 210 | 214 | 215 | 218 | 199 | | | 214 | 205 | 194 | 193 | 155 | 76 | 122 | 172 |
| 3 | 26 | 165 | 73 | 72 | 90 | 103 | 75 | | | | | | | | | | | | | | | | | | 85 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | 201 |
| 5 | 168 | 249 | 208 | 211 | 159 | 192 | 238 | 250 | 271 | 295 | 300 | 283 | 295 | 261 | 331 | 347 | 343 | 30 | 91 | 157 | 199 | 215 | 217 | 99 | 242 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | 239 |
| 7 | 293 | 276 | 200 | 164 | 145 | 260 | 146 | 305 | 97 | 360 | 352 | 322 | 328 | 325 | 330 | 323 | 334 | 294 | 237 | 200 | 215 | 140 | 185 | 104 | 239 |
| 8 | 218 | 201 | 123 | 223 | 15 | 215 | 147 | 162 | 60 | 43 | 42 | 326 | 15 | 79 | 21 | 343 | 353 | 322 | 332 | 218 | 200 | 105 | 4 | 272 | 295 |
| 9 | 153 | 193 | 107 | 86 | 109 | 112 | 160 | 156 | 65 | 181 | 186 | 189 | 201 | 197 | 197 | 215 | 211 | 219 | 210 | 192 | 186 | 173 | 95 | 199 | 71 |
| 10 | 72 | 244 | 96 | 135 | 185 | 242 | 167 | 163 | 159 | 98 | 225 | 9 | | | | | 211 | 200 | 269 | 169 | 164 | 140 | 204 | 264 | 177 |
| 11 | 220 | 144 | 240 | 236 | 138 | 195 | 214 | 171 | 232 | 317 | 347 | 332 | 50 | 129 | 21 | 24 | 316 | 83 | 155 | 168 | 111 | 119 | 353 | 140 | 158 |
| 12 | 177 | 203 | 215 | 217 | 234 | 248 | | | | | | | | | | | 318 | 338 | 243 | 204 | 190 | 164 | 223 | 206 | 235 |
| 13 | 219 | 193 | 186 | 147 | 354 | 98 | 216 | 239 | 328 | 43 | 305 | 332 | 351 | 306 | 301 | 307 | 331 | 340 | 348 | 197 | 144 | 297 | 179 | 341 | 294 |
| 14 | 183 | 262 | 258 | 248 | 273 | 272 | 240 | 196 | 206 | 360 | 356 | 334 | 315 | 336 | 350 | 342 | 325 | 340 | 312 | 156 | 139 | 177 | 198 | 159 | 272 |
| 15 | 148 | 197 | 204 | 140 | 132 | 20 | 330 | 200 | 80 | 79 | 34 | 10 | 17 | 326 | 353 | 342 | 3 | 337 | 234 | 193 | 167 | 343 | 161 | 96 | 55 |
| 16 | 111 | 256 | 253 | 158 | 75 | 218 | 118 | 202 | 198 | 69 | 82 | | 331 | 334 | | | | | 314 | 203 | 209 | 190 | 130 | 228 | 188 |
| 17 | 233 | 329 | 175 | 71 | 250 | 220 | 161 | 245 | 105 | 89 | 114 | 345 | | | | | | | 344 | 223 | 205 | 176 | 194 | 64 | 251 |
| 18 | 270 | 129 | 219 | 203 | 147 | 236 | 246 | 223 | 334 | 328 | 309 | 298 | 297 | 308 | 312 | 332 | 325 | 325 | 336 | 252 | 211 | 186 | 224 | 139 | 267 |
| 19 | 292 | 105 | 150 | 242 | 215 | 190 | 213 | 33 | 173 | 75 | 24 | 212 | 212 | 238 | 253 | 256 | 254 | 209 | 204 | 208 | 234 | 11 | 127 | 137 | 207 |
| 20 | 148 | 158 | 267 | 321 | 77 | 113 | 122 | 104 | 79 | 53 | 273 | 226 | 228 | 216 | 217 | 211 | 219 | 215 | 217 | 203 | 194 | 178 | 166 | 163 | 166 |
| 21 | 159 | 189 | 180 | 188 | 189 | 183 | 176 | 175 | 177 | 171 | 194 | 174 | 190 | 194 | 196 | 171 | 178 | 245 | 47 | 128 | 132 | 129 | 183 | 98 | 172 |
| 22 | 278 | 233 | 292 | 122 | 163 | 224 | 360 | 131 | 201 | 321 | 181 | 5 | 194 | 231 | 221 | 172 | 236 | 359 | 322 | 298 | 210 | 206 | 212 | 147 | 225 |
| 23 | 145 | 109 | 103 | 166 | 165 | 190 | 160 | 106 | 86 | 104 | 32 | 204 | 191 | 173 | | 214 | 209 | 207 | 191 | 205 | 134 | 151 | 87 | 108 | 153 |
| 24 | 150 | 153 | 83 | 88 | 153 | 195 | 158 | 109 | 169 | 29 | 38 | | | | | | | | | | | | | | 118 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | 267 |
| 26 | 224 | 253 | 120 | 209 | 56 | 165 | 86 | 248 | 185 | 16 | 193 | 214 | 205 | 204 | 214 | 240 | 225 | 258 | 308 | 223 | 213 | 221 | 112 | 270 | 213 |
| 27 | 214 | 209 | 122 | 223 | 229 | 58 | 176 | 177 | 246 | 35 | 309 | 299 | 312 | 301 | 337 | 334 | 306 | 301 | 283 | 246 | 211 | | | | 266 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 153 |
| 29 | 169 | 149 | 159 | 161 | 132 | 156 | 138 | 235 | 302 | 78 | 324 | 278 | 251 | 242 | 278 | 218 | 128 | 91 | 104 | 176 | 109 | 110 | 155 | 169 | 166 |
| 30 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 180 | 132 | 205 | 209 | 209 | 211 | 214 | 209 | 197 | 187 | 197 | 196 | 201 | 195 | 199 | 197 |
| 31 | 185 | 202 | 201 | 199 | 192 | 196 | 195 | 190 | 192 | 213 | 211 | 211 | 213 | 214 | 217 | 217 | 218 | 222 | 229 | 231 | 218 | 200 | 198 | 220 | 207 |
| MEAN | 187 | 193 | 270 | 270 | 156 | 192 | 170 | 182 | 160 | 46 | 328 | 290 | 265 | 259 | 285 | 283 | 281 | 281 | 257 | 204 | 188 | 174 | 172 | 165 | |

TOTAL NUMBER OF OBSERVATIONS = 7393 MEAN = 203

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF WIND DIRECTION AT 100 FEET
TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 188 | 164 | 103 | 121 | 220 | 220 | 34 | 91 | 9 | 282 | 330 | 342 | 329 | 329 | 307 | 294 | 311 | 302 | | 188 | 160 | 157 | 97 | 307. |
| 2 | 161 | 73 | 112 | 264 | 151 | 161 | 189 | 138 | 112 | 106 | 202 | 204 | 205 | 209 | 188 | | | 205 | 186 | 181 | 170 | 163 | 80 | 140 |
| 3 | 216 | 162 | 82 | 114 | 102 | 110 | 183 | | | | | | | | | | | | | | | | | 139. |
| 4 | | | | | | | | | | | | | 255 | | | 191 | 188 | 177 | 187 | 256 | 272 | 193 | 87 | 106 |
| 5 | 117 | 264 | 228 | 210 | 167 | 185 | 235 | 237 | 256 | 284 | 289 | 274 | 287 | 248 | 315 | 352 | 336 | 22 | 57 | 49 | 84 | 331 | 241 | 114 |
| 6 | | | | | | | | | | | | | | | 285 | 302 | 311 | 288 | 270 | 266 | 256 | 184 | 210 | 108 |
| 7 | 22 | 43 | 151 | 181 | 133 | 326 | 274 | 304 | 61 | 348 | 347 | 317 | 320 | 311 | 315 | 299 | 323 | 285 | 327 | 4 | 199 | 195 | 12 | 96 |
| 8 | 125 | 187 | 29 | 249 | 357 | 271 | 278 | 56 | 77 | 41 | 33 | 301 | 6 | 74 | 351 | 332 | 4 | 309 | 328 | 257 | 200 | 194 | 49 | 77 |
| 9 | 72 | 140 | 96 | 100 | 130 | 116 | 156 | 171 | 47 | 168 | 173 | 177 | 189 | 184 | 187 | 204 | 200 | 205 | 200 | 182 | 174 | 159 | 169 | 191 |
| 10 | 152 | 210 | 70 | 109 | 145 | 253 | 184 | 146 | 159 | 105 | 214 | 359 | | | | | 208 | 270 | 264 | 133 | 127 | 136 | 234 | 250 |
| 11 | 228 | 108 | 233 | 246 | 118 | 203 | 262 | 185 | 218 | 275 | 328 | 317 | 36 | 118 | 6 | 27 | 296 | 66 | 141 | 141 | 93 | 98 | 20 | 57 |
| 12 | 75 | 110 | 218 | 225 | 230 | 246 | | | | | | | 307 | 302 | 302 | 324 | 5 | 279 | 232 | 197 | 189 | 151 | 179 | 218 |
| 13 | 261 | 236 | 182 | 178 | 35 | 14 | 351 | 239 | 265 | 43 | 296 | 325 | 329 | 299 | 309 | 301 | 327 | 331 | 358 | 126 | 149 | 320 | 181 | 336 |
| 14 | 108 | 278 | 261 | 258 | 279 | 293 | 255 | 215 | 198 | 354 | 337 | 328 | 303 | 326 | 338 | 330 | 314 | 329 | 336 | 45 | 113 | 133 | 142 | 152 |
| 15 | 40 | 153 | 233 | 342 | 14 | 69 | 53 | 195 | 43 | 70 | 21 | 360 | 4 | 305 | 342 | 333 | 354 | 329 | 58 | 142 | 156 | 27 | 196 | 32 |
| 16 | 111 | 95 | 306 | 305 | 74 | 63 | 109 | 96 | 246 | 73 | 78 | 36 | 321 | 326 | 336 | 337 | 4 | 331 | 348 | 232 | 133 | 283 | 33 | 256 |
| 17 | 8 | 13 | 87 | 99 | 317 | 259 | 110 | 302 | 122 | 85 | 78 | 329 | 292 | 292 | 298 | 316 | 322 | 331 | 355 | 32 | 85 | 133 | 223 | 20 |
| 18 | 332 | 57 | 156 | 242 | 50 | 190 | 349 | 24 | 41 | 326 | 306 | 296 | 292 | 300 | 306 | 324 | 317 | 317 | 334 | 10 | 222 | 215 | 99 | 173 |
| 19 | 33 | 14 | 101 | 129 | 209 | 196 | 260 | 31 | 357 | 60 | 63 | 210 | 209 | 230 | 247 | 252 | 249 | 202 | 199 | 198 | 158 | 12 | 111 | 119 |
| 20 | 120 | 148 | 184 | 212 | 72 | 111 | 116 | 114 | 104 | 78 | 232 | 217 | 218 | 207 | 208 | 203 | 210 | 204 | 209 | 194 | 179 | 166 | 152 | 156 |
| 21 | 162 | 178 | 170 | 177 | 175 | 171 | 166 | 164 | 167 | 161 | 183 | 165 | 179 | 183 | 185 | 161 | 168 | 237 | 37 | 126 | 123 | 120 | 164 | 97 |
| 22 | 274 | 228 | 279 | 111 | 156 | 219 | 336 | 75 | 152 | 14 | 144 | 61 | 181 | 219 | 208 | 161 | 225 | 355 | 323 | 316 | 220 | 229 | 215 | 149 |
| 23 | 123 | 97 | 125 | 166 | 140 | 192 | 142 | 144 | 95 | 89 | 30 | 195 | 179 | 168 | | 206 | 200 | 190 | 177 | 197 | 134 | 143 | 89 | 83 |
| 24 | 127 | 141 | 85 | 57 | 148 | 189 | 171 | 123 | 166 | 27 | 34 | 359 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 279 | 266 | 47 | 208 | 19 | 141 | 158 | 65 | 168 | 333 | 183 | 202 | 197 | 198 | 199 | 231 | 223 | 252 | 294 | 256 | 243 | 247 | 58 | 49 |
| 27 | 187 | 225 | 102 | 154 | 324 | 31 | 115 | 147 | 241 | 23 | 305 | 298 | 305 | 293 | 325 | 330 | 297 | 290 | 280 | 234 | 199 | 224 | 147 | 44 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 150 | 138 | 143 | 142 | 113 | 129 | 125 | 211 | 287 | 46 | 326 | 273 | 246 | 235 | 270 | 213 | 147 | 79 | 95 | 159 | 109 | 98 | 136 | 141 |
| 30 | 131 | 132 | 134 | 137 | 187 | 171 | 147 | 160 | 144 | 141 | 138 | 195 | 201 | 199 | 201 | 203 | 198 | 186 | 181 | 190 | 186 | 191 | 185 | 190 |
| 31 | 176 | 193 | 192 | 187 | 181 | 186 | 186 | 182 | 182 | 203 | 200 | 200 | 202 | 203 | 206 | 205 | 206 | 211 | 218 | 219 | 210 | 190 | 194 | 210 |
| MEAN | 136. | 155. | 270. | 270. | 127. | 183. | 171. | 148. | 144. | 49. | 328. | 285. | 257. | 249. | 279. | 278. | 275. | 278. | 278. | 193. | 169. | 170. | 149. | 122. |

TOTAL NUMBER OF OBSERVATIONS = 7429 MEAN = 188.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT.

DIURNAL VARIATION OF WIND DIRECTION AT 200 FEET
TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 241 | 197 | 108 | 124 | 217 | 72 | 173 | 19 | 302 | 330 | 352 | 331 | 333 | 309 | 299 | 316 | 311 | | | | | | | | |
| 2 | 201 | 165 | 121 | 159 | 205 | 160 | 210 | 153 | 159 | 165 | 219 | 220 | 219 | 224 | 203 | | | 219 | 201 | 189 | 183 | 184 | 184 | 171 | 187 |
| 3 | 195 | 199 | 183 | 190 | 175 | 159 | 194 | | | | | | | | | | | | | | | | | | 185 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | 209 |
| 5 | 116 | 305 | 294 | 233 | 193 | 227 | 257 | 250 | 269 | 299 | 304 | 280 | 291 | 258 | 330 | 299 | 316 | 311 | | | | | | | 275 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | 294 |
| 7 | 37 | 95 | 135 | 263 | 192 | 7 | 75 | 264 | 97 | 8 | 357 | 322 | 320 | 312 | 292 | 306 | 312 | 294 | 286 | 324 | 307 | 224 | 236 | 209 | 281 |
| 8 | 148 | 193 | 343 | 342 | 290 | 263 | 288 | 123 | 117 | 78 | 44 | 322 | 11 | 69 | 292 | 305 | 332 | 288 | 334 | 2 | 268 | 245 | 160 | 107 | 329 |
| 9 | 83 | 158 | 126 | 157 | 163 | 147 | 176 | 196 | 188 | 184 | 191 | 196 | 205 | 201 | 5 | 339 | 270 | 316 | 333 | 343 | 215 | 235 | 162 | 138 | 328 |
| 10 | 194 | 222 | 127 | 106 | 192 | 273 | 224 | 148 | 177 | 125 | 222 | 6 | | | 221 | 216 | 216 | 223 | 216 | 202 | 198 | 178 | 174 | 204 | 186 |
| 11 | 301 | 110 | 254 | 273 | 321 | 219 | 304 | 234 | 232 | 260 | 340 | 318 | 63 | 131 | 351 | 38 | 302 | 66 | 154 | 141 | 118 | 153 | 289 | 278 | 195 |
| 12 | 8 | 27 | 225 | 258 | 251 | 265 | | | | | | | | | | | | | | | | | | | 333 |
| 13 | 291 | 257 | 211 | 229 | 174 | 37 | 96 | 266 | 250 | 57 | 305 | 307 | 337 | 303 | 319 | 305 | 335 | 338 | 2 | 94 | 200 | 218 | 235 | 269 | 286 |
| 14 | 315 | 297 | 277 | 276 | 293 | 298 | 279 | 254 | 211 | 263 | 332 | 330 | 307 | 332 | 344 | 336 | 320 | 336 | 347 | 39 | 105 | 128 | 172 | 170 | 304 |
| 15 | 151 | 178 | 236 | 278 | 8 | 192 | 87 | 237 | 1 | 80 | 31 | 1 | 336 | 310 | 341 | 1 | 358 | 339 | 47 | 136 | 198 | 163 | 218 | 201 | 331 |
| 16 | 131 | 113 | 91 | 290 | 168 | 105 | 107 | 113 | 145 | 118 | 85 | | 326 | 335 | 348 | | 2 | 341 | 357 | 4 | 100 | 52 | 110 | 82 | 73 |
| 17 | 320 | 8 | 102 | 116 | 86 | 290 | 119 | 284 | 266 | 148 | 131 | 340 | | 309 | 307 | 324 | 331 | 340 | 1 | 30 | 85 | 102 | 289 | 354 | 357 |
| 18 | 19 | 72 | 140 | 202 | 115 | 357 | 292 | 312 | 278 | 280 | 312 | 305 | 303 | 308 | 317 | 332 | 326 | 329 | 351 | 16 | 10 | 261 | 117 | 280 | 323 |
| 19 | 83 | 121 | 129 | 107 | 112 | 199 | 284 | 153 | 360 | 78 | 145 | 225 | 226 | 246 | 263 | 267 | 262 | 216 | 219 | 222 | 218 | 47 | 133 | 137 | 183 |
| 20 | 116 | 187 | 208 | 214 | 134 | 124 | 145 | 178 | 185 | 159 | 234 | 237 | 236 | 226 | 227 | 223 | 229 | 223 | 232 | 219 | 202 | 192 | 179 | 182 | 197 |
| 21 | 191 | 196 | 191 | 199 | 193 | 191 | 185 | 184 | 167 | 179 | 203 | 186 | 197 | 201 | 203 | 181 | 188 | 256 | 45 | 125 | 138 | 134 | 173 | 142 | 182 |
| 22 | 298 | 253 | 296 | 134 | 172 | 233 | 306 | 148 | 152 | 92 | 138 | 122 | 192 | 236 | 220 | 181 | 255 | 12 | 356 | 337 | 323 | 280 | 250 | 186 | 226 |
| 23 | 140 | 168 | 171 | 186 | 178 | 224 | 163 | 200 | 158 | 113 | 39 | 207 | 197 | | | | 229 | 223 | 207 | 229 | 177 | 178 | 139 | 116 | 179 |
| 24 | 168 | 177 | 136 | 298 | 195 | 232 | 249 | 206 | 296 | 73 | 53 | 21 | | | | | | | | | | | | | 201 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | 309 |
| 26 | 197 | 256 | 56 | 126 | 28 | 157 | 223 | 221 | 214 | 212 | 204 | 220 | 216 | 215 | 220 | 312 | 302 | 293 | 317 | 320 | 265 | 269 | 72 | 93 | 309 |
| 27 | 101 | 306 | 68 | 125 | 349 | 278 | 54 | 49 | 294 | 357 | 317 | 310 | 315 | 304 | 329 | 340 | 308 | 302 | 297 | 351 | 335 | 242 | 262 | 209 | 65 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 323 |
| 29 | 176 | 156 | 154 | 145 | 120 | 137 | 135 | 204 | 301 | 348 | 328 | 276 | 246 | 237 | 271 | 243 | 177 | 94 | 149 | 159 | 147 | 160 | 172 | 166 | 159 |
| 30 | 160 | 152 | 153 | 160 | 213 | 193 | 167 | 182 | 176 | 169 | 178 | 213 | 218 | 216 | 219 | 221 | 215 | 202 | 203 | 211 | 207 | 209 | 204 | 211 | 194 |
| 31 | 198 | 212 | 210 | 206 | 199 | 203 | 204 | 203 | 204 | 221 | 218 | 218 | 220 | 222 | 211 | 207 | 209 | 214 | 222 | 223 | 215 | 206 | 215 | 229 | 211 |
| MEAN | 163. | 182. | 270. | 270. | 181. | 211. | 192. | 200. | 211. | 132. | 269. | 282. | 270. | 262. | 286. | 287. | 280. | 287. | 294. | 214. | 183. | 183. | 182. | 174. | |

TOTAL NUMBER OF OBSERVATIONS = 7402 MEAN = 220.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

TEMPERATURE CHANGE FROM 301 TO 1001 (DEG F*10)
TRAILER NO. 723 PERIOD(10/ 1/74 TO 10/31/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|------|------|----|-----|-----|----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | 5 | 33 | 22 | 19 | 25 | 25 | 25 | 2 | 15 | 14 | 14 | 14 | 16 | 15 | 13 | 10 | 4 | 0 | | | 9 | 13 | 23 | 15 | 2 |
| 2 | 19 | 15 | 22 | 21 | 19 | 29 | 16 | 12 | 8 | 10 | 14 | 14 | 16 | 15 | 15 | 14 | 14 | 14 | 4 | 11 | 20 | 14 | 15 | 15 | 7 |
| 3 | 9 | 0 | 1 | 3 | 1 | 0 | 11 | 14 | 12 | 13 | 14 | 13 | 13 | 16 | 15 | 18 | 17 | 15 | 5 | 7 | 5 | 8 | 6 | 0 | -10 |
| 4 | 6 | 13 | 15 | 6 | 7 | 17 | 4 | 9 | 14 | 17 | 18 | 19 | 19 | 20 | 18 | 17 | 14 | 14 | 6 | 4 | 1 | 1 | 2 | 2 | -18 |
| 5 | 19 | 12 | 15 | 17 | 5 | 2 | 4 | 4 | 12 | 17 | 18 | 19 | 19 | 19 | 15 | 18 | 14 | 14 | 3 | 2 | 1 | 1 | 1 | 1 | -6 |
| 6 | 4 | 0 | 6 | 6 | 9 | 10 | 0 | 7 | 3 | 16 | 19 | 16 | 25 | 27 | 22 | 23 | 22 | 16 | 5 | 22 | 30 | 16 | 0 | 8 | -3 |
| 7 | 6 | 2 | 3 | 0 | 5 | 2 | 1 | 2 | 6 | 18 | 20 | 17 | 20 | 19 | 11 | 10 | 13 | 12 | 11 | 8 | 3 | 12 | 15 | 3 | -1 |
| 8 | 5 | 4 | 6 | 0 | 9 | 5 | 3 | 0 | 5 | 14 | 17 | 18 | 19 | 20 | 16 | 16 | 14 | 13 | 11 | 5 | 8 | 0 | 8 | 2 | -7 |
| 9 | 1 | 0 | 2 | 2 | 2 | 2 | 11 | 12 | 2 | 3 | 6 | 24 | 16 | 21 | 21 | 19 | 16 | 11 | 3 | 1 | 15 | 9 | 4 | 0 | -4 |
| 10 | 17 | 18 | 4 | 10 | 11 | 12 | 13 | 7 | 5 | 14 | 18 | 18 | 15 | 19 | 21 | 20 | 17 | 11 | 3 | 1 | 22 | 17 | 14 | 12 | 1 |
| 11 | 25 | 18 | 9 | 18 | 15 | 13 | 4 | 4 | 1 | 12 | 12 | 11 | 9 | 12 | 9 | 9 | 5 | 7 | 0 | 13 | 22 | 7 | 14 | 10 | 6 |
| 12 | 4 | 13 | 9 | 16 | 19 | 16 | 0 | 12 | 4 | 8 | 16 | 17 | 18 | 17 | 19 | 18 | 5 | 1 | 11 | 5 | 12 | 22 | 43 | 19 | 5 |
| 13 | 13 | 6 | 8 | 24 | 12 | 12 | 13 | 19 | 13 | 6 | 14 | 15 | 17 | 16 | 21 | 15 | 14 | 12 | 2 | 24 | 4 | 7 | 11 | 25 | 1 |
| 14 | 16 | 17 | 27 | 21 | 12 | 22 | 27 | 29 | 24 | 4 | 14 | 17 | 19 | 20 | 21 | 20 | 18 | 12 | 1 | 15 | 16 | 10 | 21 | 28 | 4 |
| 15 | 11 | 5 | 1 | 1 | 1 | 6 | 5 | 6 | 11 | 16 | 17 | 18 | 13 | 6 | 6 | 4 | 0 | 14 | 4 | 5 | 6 | 9 | 11 | 6 | 5 |
| 16 | 3 | 3 | 3 | 18 | 15 | 15 | 19 | 21 | 33 | 22 | 15 | 3 | 0 | 1 | 1 | 0 | 1 | 6 | 7 | 13 | 11 | 14 | 15 | 5 | -1 |
| 17 | 8 | 8 | 8 | 20 | 15 | 15 | 11 | 19 | 22 | 7 | 0 | 2 | 4 | 2 | 27 | 27 | 0 | 1 | 1 | 2 | 1 | 2 | 2 | 9 | 5 |
| 18 | 13 | 16 | 22 | 6 | 5 | 5 | 4 | 6 | 11 | 2 | 0 | 5 | 8 | 2 | 9 | 9 | 5 | 1 | 1 | 8 | 12 | 8 | 13 | 11 | 5 |
| 19 | 6 | 6 | 8 | 16 | 12 | 12 | 13 | 19 | 13 | 6 | 14 | 15 | 17 | 16 | 15 | 18 | 18 | 15 | 1 | 5 | 4 | 12 | 13 | 13 | 4 |
| 20 | 11 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 7 | 0 | 0 | 2 |
| 21 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 24 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 30 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| MEAN | 8. | 8. | 10. | 12. | 9. | 11. | 9. | 9. | 5. | 7. | 11. | 13. | 13. | 14. | 13. | 11. | 11. | 8. | 1. | 5. | 8. | 8. | 10. | 9. | |

TOTAL NUMBER OF OBSERVATIONS = 7451 MEAN = 1.

TEMPERATURE CHANGE FROM 30° TO 200° (DEG F*10)
 TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | -15 | -22 | -17 | -20 | | 7 | 23 | 31 | 29 | 28 | 34 | 25 | 20 | 19 | 15 | 3 | 3 | -16 | | 2 | 24 | -22 | 8 | -12 | 6 |
| 2 | -11 | -17 | -23 | -2 | -2 | -14 | 4 | -20 | 39 | 23 | 9 | 9 | 3 | 2 | 8 | | | -9 | | 8 | 14 | 14 | 3 | -14 | 1 |
| 3 | 9 | 10 | 11 | 11 | -5 | 8 | 8 | | | | | | | | | | | | | | | | | | 8 |
| 4 | -4 | -5 | -15 | -12 | -3 | 0 | -5 | -12 | -7 | -6 | -8 | -7 | -2 | -6 | -4 | -9 | -13 | -15 | -6 | -2 | 6 | -18 | -20 | -10 | -11 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | -24 | -21 | -15 | -14 | -13 | -15 | -17 | 17 | 17 | 23 | 33 | 30 | 25 | 23 | 15 | 20 | 21 | 10 | -20 | -38 | -39 | -38 | -38 | -38 | -12 |
| 7 | 0 | 3 | 8 | -12 | -20 | -23 | -24 | -23 | 12 | 19 | 14 | 20 | 21 | 17 | 30 | 20 | 4 | 15 | -20 | -19 | -20 | -17 | -13 | -18 | -11 |
| 8 | -20 | 7 | -10 | 2 | -16 | 8 | 2 | 14 | 2 | -11 | -10 | -10 | -13 | -10 | -14 | -8 | -4 | 3 | -7 | -15 | -20 | -21 | -17 | -24 | -2 |
| 9 | -20 | -11 | -11 | -11 | -21 | 4 | -5 | -12 | 12 | 3 | 3 | 1 | | | | | -11 | -10 | -6 | 17 | -18 | -12 | -14 | -19 | -3 |
| 10 | -16 | -18 | 5 | 8 | -16 | -23 | -11 | -8 | -8 | 4 | 16 | 3 | 2 | 3 | -6 | -9 | -14 | -12 | -20 | -21 | -8 | -7 | 21 | -2 | -7 |
| 11 | -19 | -22 | -21 | -4 | -9 | -8 | -22 | -10 | 27 | 30 | 27 | 19 | 16 | 13 | 14 | 10 | 7 | -3 | -13 | -9 | -1 | -1 | 0 | -12 | -9 |
| 12 | -19 | -21 | -24 | -17 | -21 | -24 | -22 | -10 | 27 | 30 | 27 | 19 | 16 | 13 | 16 | 18 | 15 | 7 | -3 | -9 | -1 | -1 | 0 | -17 | -6 |
| 13 | -24 | -12 | -2 | -5 | -6 | -5 | 15 | 11 | 19 | 36 | 44 | 9 | 23 | 13 | 11 | 11 | 11 | 2 | -11 | -21 | -10 | -19 | -4 | -17 | -2 |
| 14 | -6 | -23 | -12 | -7 | -23 | -24 | -11 | -4 | 32 | 18 | 17 | 23 | 28 | 25 | 10 | 11 | 12 | 4 | -15 | -22 | -21 | -2 | 7 | -3 | 4 |
| 15 | -15 | 6 | -3 | -18 | -17 | -18 | -4 | 1 | 19 | 19 | 17 | 19 | 32 | 29 | 17 | -17 | 27 | 5 | 2 | -7 | -13 | -20 | -14 | -18 | 8 |
| 16 | 24 | 28 | 30 | 33 | 50 | 29 | 15 | 18 | 13 | -12 | -13 | -11 | | 29 | 25 | 26 | 28 | 18 | -1 | -8 | -23 | -17 | 34 | 34 | 8 |
| 17 | -33 | -27 | -24 | -5 | -25 | -26 | -6 | -23 | 5 | 18 | 18 | 5 | 3 | 2 | 0 | 3 | 6 | -13 | -21 | -25 | -38 | -37 | 0 | -1 | 13 |
| 18 | -24 | -7 | -5 | 2 | 0 | -11 | -16 | -15 | 4 | 21 | 8 | 5 | 0 | 3 | 7 | 6 | 0 | -4 | -8 | -38 | -42 | -7 | -20 | -6 | -1 |
| 19 | -10 | -13 | 16 | 23 | -18 | -11 | 8 | 17 | 44 | 26 | 11 | 2 | -1 | -9 | -9 | -9 | -11 | -8 | 0 | 20 | 8 | 8 | 10 | 7 | -1 |
| 20 | 11 | 0 | -10 | -4 | -4 | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|-----|----|----|
| 21 | 10 | 10 | 4 | 0 | 14 | 3 | 9 | 11 | 22 | 46 | 19 | 11 | 10 | 13 | 21 | 21 | 9 | 10 | 9 | 12 | 8 | 0 | -14 | -8 | 5 |
| 22 | 3 | 12 | 4 | 14 | 6 | 4 | -8 | -20 | 29 | 41 | 29 | 29 | 20 | 5 | 13 | 12 | 9 | 6 | 6 | 3 | 5 | 0 | 11 | -9 | 10 |
| 23 | 0 | 0 | 6 | 16 | 13 | 9 | 9 | 18 | 13 | 10 | 1 | 3 | 1 | 7 | 1 | 0 | 5 | 4 | - | 7 | 10 | 6 | 0 | 0 | 4 |
| 24 | 1 | -8 | 6 | 14 | 16 | 12 | 14 | 15 | 12 | 23 | 17 | 21 | 17 | 11 | 10 | 7 | 7 | 7 | 0 | 0 | 1 | -4 | 8 | 10 | 5 |
| 25 | 9 | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 4 | 5 | 6 | 6 | 7 | 6 | 5 | 5 | 4 | 4 | 4 | 3 | 4 | 6 | 5 | 2 | 11 |
| 26 | -8 | -5 | -5 | 0 | -5 | -6 | -1 | 0 | 16 | 17 | 14 | 10 | 10 | 9 | 10 | 5 | 5 | -2 | -6 | -4 | -4 | -7 | -3 | -8 | |

TOTAL NUMBER OF OBSERVATIONS = 6521 MEAN = 1.

APPENDIX A

STABILITY WIND ROSE DIAGRAMS

APPENDIX A
STABILITY WIND ROSE DIAGRAMS

According to the data presented in AEC Safety Guide No. 23, the relationships between stability classes and σ_θ are as follows (the values shown are averages for each stability classification... σ_θ is the standard deviation of horizontal wind direction fluctuations).

| <u>Stability Classification</u> | <u>Pasquill Categories</u> | <u>Average Values
σ_θ
(degrees)</u> |
|---------------------------------|----------------------------|--|
| Extremely Unstable | A | 25.0° |
| Moderately Unstable | B | 20.0° |
| Slightly Unstable | C | 15.0° |
| Neutral | D | 10.0° |
| Slightly Stable | E | 5.0° |
| Moderately Stable | F | 2.5° |

Stability wind roses obtained at the trailers in the monitoring network are displayed in the following tables. Because of the relatively low heights above the surface (9 meters) at which the wind data is taken, the stability distributions are skewed toward the unstable end of the spectrum. That is, the unstable classes (A, B, and C) have a much higher frequency of occurrence than would be obtained with the Pasquill method of stability categorization (or with instruments at higher levels).

Table 1 depicts the frequency distribution of Pasquill stability categories based on σ_θ from data collected by M. M. Pendergast and T. V. Crawford at the Savannah River Plant ("Actual Standard Deviations of Vertical and Horizontal Wind Direction Compared to Estimates from Other Measurements", Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974). Three distinct range patterns of stability class

distributions were observed: low, mid, and high, according to the height at which the σ_θ measurements were taken.

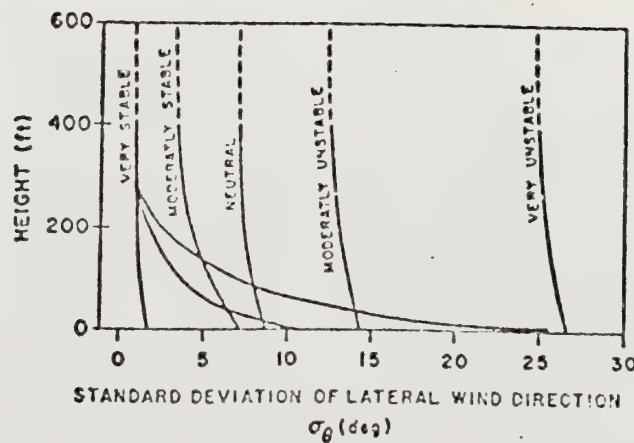
TABLE 1

Frequency distribution of Pasquill Stability Categories

| Height,
m | Stability Categories based on σ_θ | | | | | | | | |
|--------------|---|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------|------|-------|
| | A
$\sigma_\theta > 23$ | B
$18 \leq \sigma_\theta < 23$ | C
$13 \leq \sigma_\theta < 18$ | D
$8 \leq \sigma_\theta < 13$ | E
$4 \leq \sigma_\theta < 8$ | F
$2 \leq \sigma_\theta < 4$ | G
$\sigma_\theta < 2$ | | |
| 10 | 22.6 | 13.9 | 21.8 | 28.9 | 8.9 | 0.4 | 3.5 | LOW | RANGE |
| 36 | 19.3 | 11.8 | 19.4 | 32.4 | 15.9 | 0.7 | 0.5 | | |
| 91 | 9.6 | 6.7 | 13.5 | 21.7 | 29.6 | 16.4 | 2.5 | MID | RANGE |
| 137 | 9.3 | 5.8 | 11.7 | 20.8 | 28.5 | 18.4 | 5.5 | | |
| 182 | 7.0 | 2.9 | 6.8 | 17.1 | 25.9 | 25.6 | 14.7 | HIGH | RANGE |
| 243 | 7.7 | 4.3 | 9.4 | 17.7 | 27.6 | 22.9 | 10.4 | | |
| 304 | 7.2 | 3.7 | 8.0 | 17.2 | 28.7 | 23.9 | 11.3 | | |

Also, Figure 1 (from D. H. Slade, Meteorology and Atomic Energy, 1968, p. 52) demonstrates that the line representing very stable conditions (which by their nature are associated with light winds) branches into three separate lines near the ground. The curve at the left represents the smallest values of σ_θ usually observed. The curve that branches off to the right reflects the contribution of very low-level wind direction meander to the total standard deviation. These meandering oscillations decrease in amplitude very rapidly with height under stable conditions. The central curve represents typical inversion conditions. Actually, for a given stability condition, values of σ_θ will always be greater when the wind is light than when it is strong. This phenomena is most noticeable in the lowest layers.

Figure 1



The vertical variation of the lateral wind-direction standard deviation (σ_θ) for various stability regimes. The curves represent average or typical conditions with the exception of the two outer "very stable" lines, which represent extremes.

The large surface values of σ_θ for unstable conditions do not decrease very rapidly with height. As in the case of very stable conditions, the greatest lateral fluctuations during a very unstable thermal structure occur with very light winds. As a general rule, for a given insolation condition, increasing wind speeds are associated with profiles of σ_θ that tend toward neutral stability.

The majority of the trailers in the network recorded very light winds throughout the month. Therefore, the stability distributions had a predominance of high σ_θ values and, hence, unstable classifications. Those trailers with the highest average winds (and fewest nearby obstacles to the flow) generally had the more reasonable and representative low-level stability class distributions.

COMPANION

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - A

| WIND SPEED | | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL | |
|------------|----|----------------|-----------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|--|
| MPH | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | | |
| GT | 24 | : | | | | | | | | | | | | | | | | : | | |
| 18 - | 24 | : | | | | | | | | | | | | | | | | : | | |
| 12 - | 18 | : | | | 3 | 3 | 1 | 1 | | 4 | 4 | | 1 | | | | | : | | |
| 7 - | 12 | : | | 2 | 14 | 5 | 24 | 31 | 47 | 27 | 27 | 17 | 19 | 14 | 4 | 1 | 1 | : | | |
| 3 - | 7 | : | 15 | 2 | 7 | 173 | 116 | 41 | 62 | 89 | 86 | 53 | 67 | 66 | 68 | 47 | 20 | : | | |
| LT | 3 | : | 65 | 44 | 34 | 446 | 798 | 246 | 50 | 79 | 108 | 104 | 132 | 169 | 112 | 116 | 65 | : | | |
| TOTAL | | : | 80 | 46 | 43 | 514 | 979 | 387 | 123 | 188 | 228 | 221 | 178 | 219 | 249 | 184 | 164 | : | | |
| | | : | 86 : 3889 | | | | | | | | | | | | | | | | | |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 1527(39.26 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - B

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | TOTAL | | | |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-------|-----|---|-----|
| | N | NNE | NE | ESE | E | ENE | SE | SSE | S | SSW | SW | | WSW | W | WNW | NW | NNW |

| | | | | | | | | | | | | | | | | | | | |
|-------|----|---|----|----|----|-----|-----|-----|----|----|----|----|----|-----|-----|----|----|----|------|
| GT | 24 | : | | | | | | | | | | | | | | | | : | |
| 18 - | 24 | : | | | | | | | | | | | | | | | | : | |
| 12 - | 18 | : | | | | | | | | | | | | | | | | : | |
| 7 - | 12 | : | | | | | | | | | | | | | | | | : | |
| 3 - | 7 | : | | | | | | | | | | | | | | | | : | |
| LT | 3 | : | | | | | | | | | | | | | | | | : | |
| TOTAL | : | | 14 | 11 | 21 | 261 | 463 | 202 | 38 | 27 | 19 | 20 | 49 | 217 | 187 | 65 | 23 | 30 | 1649 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 455(27.59 %)

TRAILER NO. - 20 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS -

U

WIND DIRECTION

[illegible]

WIND SPEED
MPH

| GT | 24 | : | 1 | 4 | 1 | 1 | 2 | 9 |
|-------|----|---|----|----|-----|-----|-----|------|
| 18 - | 24 | : | | | | | | |
| 12 - | 18 | : | 1 | 4 | | | | |
| 7 - | 12 | : | 3 | 4 | 48 | 4 | 1 | 103 |
| 3 - | 7 | : | 5 | 70 | 167 | 139 | 5 | 613 |
| LT | 3 | : | 15 | 29 | 377 | 381 | 132 | 1156 |
| TOTAL | : | | 24 | 8 | 34 | 450 | 553 | 1881 |

| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE | % |
|---|---------|
| 454 | 24.14 % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. 20 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - D

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |

| | | | | | | | | | | | | | | | | | |
|---------|---|----|---|----|-----|-----|-----|--|---|---|----|----|----|----|---|---|-----|
| GT 24 | : | | | | | | | | | | | | | | | | |
| 18 - 24 | : | | | | | | | | | | | | | | | | |
| 12 - 18 | : | | | | | | | | | | | | | | | | |
| 7 - 12 | : | | | | 1 | 4 | 21 | | | | | 6 | 3 | | | | 35 |
| 3 - 7 | : | 4 | 2 | 3 | 34 | 95 | 95 | | | | 13 | 15 | 5 | | 1 | 1 | 267 |
| LT 3 | : | 12 | 2 | 15 | 280 | 204 | 96 | | 1 | | 1 | 12 | 15 | 13 | 1 | 3 | 655 |
| TOTAL | : | 16 | 4 | 18 | 315 | 303 | 212 | | 1 | 0 | 1 | 31 | 33 | 16 | 1 | 4 | 957 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 269(28.11 %)

1. Record of Observations
CORPORATION

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. 20 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - E

WIND DIRECTION

| WIND SPEED
MPH | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
|-------------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|

| | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|---|-----|
| GT 24 | 1 | | | | | | | | | | | | | | | | 1 |
| 18 - 24 | 1 | | | | | | | | | | | | | | | | 1 |
| 12 - 18 | 1 | | | | | | | | | | | | | | | | 1 |
| 7 - 12 | 1 | | | | | 8 | | | | | | 1 | | | | | 9 |
| 3 - 7 | 1 | 2 | | 3 | 14 | 18 | | | | | 0 | | 1 | | | | 38 |
| LT 3 | 1 | 1 | 1 | 50 | 33 | 15 | | | | | 0 | 0 | 0 | 3 | | | 103 |
| TOTAL | 3 | 0 | 1 | 53 | 47 | 41 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 150 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 52(34.67 %)

CONFIDENTIAL

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. 20 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - TOTAL

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|-----|------|------|------|-----|-----|-----|-----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | |
| GT 24 : | | | | | | | | | | | | 1 |
| 18 - 24 : | | | | | | | | | | | | 1 |
| 12 - 18 : | | | 4 | 6 | 9 | 3 | 4 | 5 | 1 | 1 | 1 | 21 |
| 7 - 12 : | | | 2 | 22 | 15 | 124 | 54 | 60 | 32 | 29 | 23 | 481 |
| 3 - 7 : | 37 | 9 | 15 | 189 | 575 | 439 | 56 | 77 | 100 | 94 | 87 | 2401 |
| LT 3 : | 98 | 57 | 105 | 1424 | 1768 | 617 | 52 | 73 | 94 | 93 | 130 | 5631 |
| TOTAL : | 135 | 66 | 122 | 1639 | 2364 | 1189 | 165 | 210 | 230 | 221 | 240 | 8549 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 2757(32.25 %)

| | | |
|---------------|---------------|---------|
| PERCENTAGE OF | A STABILITY - | 45.49 % |
| PERCENTAGE OF | B STABILITY - | 19.29 % |
| PERCENTAGE OF | C STABILITY - | 22.00 % |
| PERCENTAGE OF | D STABILITY - | 11.19 % |
| PERCENTAGE OF | E STABILITY - | 1.75 % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 21 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - A

WIND DIRECTION

| WIND SPEED
MPH | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------------|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|
| GT 24 : | | | | | | | | 1 | | | | | | | | | |
| 18 - 24 : | | | | | | | | | | | | | | | 1 | | 2 |
| 12 - 18 : | | | | | | | 16 | 7 | | | | | | 2 | 3 | 2 | 30 |
| 7 - 12 : | 1 | 1 | 2 | 1 | 17 | 27 | 75 | 73 | 14 | 6 | 14 | 16 | 13 | 26 | 42 | 11 | 339 |
| 3 - 7 : | 16 | 6 | 7 | 24 | 195 | 260 | 197 | 124 | 53 | 31 | 19 | 20 | 35 | 91 | 117 | 36 | 1231 |
| LT 3 : | 68 | 39 | 28 | 58 | 201 | 350 | 227 | 144 | 79 | 47 | 39 | 45 | 61 | 122 | 125 | 72 | 1705 |
| TOTAL : | 85 | 46 | 37 | 83 | 413 | 637 | 515 | 349 | 146 | 84 | 72 | 81 | 109 | 241 | 288 | 121 | 3307 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 727(21.98 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. = 21 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS = B

WIND DIRECTION

| WIND SPEED
MPH | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------------|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|----|-----|-----|-----|-------|
| GT 24 : | | | | | | | 1 | 6 | 1 | | | | | | 1 | | 9 |
| 18 - 24 : | | | | | | | 6 | 32 | 8 | | | | 1 | 1 | 3 | | 51 |
| 12 - 18 : | | | | | | | | | | | | | | | | | |
| 7 - 12 : | 1 | | | 1 | 15 | 17 | 48 | 14 | 2 | 4 | 7 | 5 | 5 | 26 | 47 | 2 | 194 |
| 3 - 7 : | 1 | | 1 | 15 | 97 | 166 | 94 | 37 | 8 | 13 | 7 | 12 | 24 | 59 | 58 | 8 | 600 |
| LT 3 : | 12 | 7 | 5 | 20 | 69 | 135 | 109 | 46 | 10 | 11 | 8 | 3 | 12 | 32 | 51 | 21 | 551 |
| TOTAL : | 14 | 7 | 6 | 36 | 181 | 325 | 289 | 106 | 20 | 28 | 22 | 20 | 42 | 118 | 160 | 31 | 1405 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 214(15.23 %)

STABILITY CLASS - 1

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 21 PERIOD(10/ 1/74 TO 10/31/74)

6

WIND DIRECTION

| | | | | | | | | | | | | | | |
|---|-----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|-----|-------|
| N | NNN | ENE | E | ESE | ES | ESS | S | SSS | MS | MSM | M | MNM | MNN | TOTAL |
|---|-----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|-----|-------|

WIND SPEED
MPH

| | GT | 24 | : | | 1 | 2 | | 1 | 16 | 28 | 1 | | 1 | 11 | 34 | 31 | 3 | 186 | | |
|-------|----|----|---|----|----|----|----|-----|-----|-----|----|---|----|----|----|----|-----|-----|----|------|
| 18 - | 24 | : | | | | | | | | | | | | | | | | 3 | | |
| 12 - | 18 | : | | | | | | 1 | 1 | 16 | 28 | 1 | | | | 1 | | 48 | | |
| 7 - | 12 | : | | | | | 3 | 15 | 54 | 31 | 0 | 1 | 1 | 1 | 11 | 34 | 31 | 3 | | |
| 3 - | 7 | : | | | 1 | 3 | 17 | 139 | 190 | 84 | 25 | 2 | 12 | 3 | 36 | 42 | 54 | 15 | | |
| LT | 3 | : | | 16 | 7 | 6 | 16 | 95 | 165 | 83 | 29 | 6 | 3 | 2 | 17 | 32 | 56 | 24 | | |
| TOTAL | | : | | 17 | 10 | 13 | 37 | 250 | 426 | 228 | 55 | 9 | 16 | 6 | 9 | 64 | 108 | 142 | 42 | 1432 |

[illegible]

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 21 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS = D

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|-----|--|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NNW | | |

| | | | | | | | | | | | | | | | | | |
|-----------|----|---|---|----|-----|-----|----|----|---|---|---|---|----|----|-----|----|---|
| GT 24 : | | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | 1 | | | | | | | | | | | | | : |
| 12 - 18 : | | | | 2 | 8 | 3 | | | | | | | | | | | : |
| 7 - 12 : | | | 9 | 11 | 30 | 7 | 1 | | | | | | 1 | 14 | 49 | 2 | : |
| 3 - 7 : | 2 | | 2 | 21 | 34 | 86 | 25 | 6 | 1 | | | 1 | 9 | 19 | 67 | 12 | : |
| LT 3 : | 16 | 3 | 1 | 26 | 78 | 78 | 24 | 8 | 2 | | | 0 | 3 | 10 | 38 | 26 | : |
| TOTAL : | 18 | 3 | 3 | 58 | 175 | 203 | 59 | 15 | 0 | 3 | 0 | 1 | 13 | 43 | 157 | 40 | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 129(16.31 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 21 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - E

WIND DIRECTION

| WIND SPEED
MPH | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------------|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| GT 24 : | | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | | | | | | | | | | | : |
| 12 - 18 : | | | | | 1 | 2 | | | | | | | | | | | : |
| 7 - 12 : | | | | 3 | 3 | 1 | | | | | | | | 1 | 2 | | : |
| 3 - 7 : | | | | 3 | 11 | 14 | | | | | | | | 2 | 2 | | : |
| LT 3 : | | | | 14 | 15 | 19 | 1 | 2 | | | | | | 0 | 2 | 17 | : |
| TOTAL : | 8 | 1 | 0 | 20 | 30 | 36 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 17 | : |
| | | | | | | | | | | | | | | | | | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 38(30.65 %)

ATLANTIC RICHFIELD COMPANY
CORPORATION

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. 21 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - TOTAL

| WIND SPEED
MPH | | WIND DIRECTION | | | | | | | | | | | | | | | | NW | NNW | TOTAL |
|---|---|----------------|-----|----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | | | | | |
| GT 24 | : | | | | | | | 3 | 8 | 2 | | | | | | 2 | | | : | 15 |
| 18 - 24 | : | | | | | | | | | | | | | | | | | | : | |
| 12 - 18 | : | | | | 1 | 4 | 32 | 79 | 16 | | | | | | 1 | 3 | 10 | 2 | : | 148 |
| 7 - 12 | : | 2 | 1 | 2 | 17 | 61 | 129 | 161 | 88 | 17 | 11 | 22 | 22 | 30 | 101 | 171 | 18 | : | | 853 |
| 3 - 7 | : | 21 | 9 | 17 | 80 | 526 | 716 | 400 | 192 | 63 | 57 | 29 | 39 | 104 | 213 | 298 | 71 | : | | 2835 |
| LT 3 | : | 120 | 58 | 41 | 137 | 467 | 759 | 449 | 227 | 92 | 63 | 49 | 50 | 96 | 200 | 278 | 160 | : | | 3246 |
| TOTAL | : | 143 | 68 | 60 | 235 | 1058 | 1639 | 1097 | 525 | 172 | 131 | 100 | 111 | 231 | 517 | 759 | 251 | : | | 7097 |
| | | | | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 1300(18.32 %) | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|---------------|---|-----------|---|-------|---|
| PERCENTAGE OF | A | STABILITY | = | 46.60 | % |
| PERCENTAGE OF | B | STABILITY | = | 19.80 | % |
| PERCENTAGE OF | C | STABILITY | = | 20.18 | % |
| PERCENTAGE OF | D | STABILITY | = | 11.15 | % |
| PERCENTAGE OF | E | STABILITY | = | 1.75 | % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. 22 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS A

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | NNW | NNW | TOTAL |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW |  |  |  | WSW | W | WNW | NW |

| | | | | | | | | | | | | | | | | |
|---------|---|----|----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|----|---|
| GT 24 | : | | | | | | | | | | | | | | | : |
| 18 - 24 | : | | | | | | | | | | | | | | | : |
| 12 - 18 | : | | | | | 8 | 2 | | | | | 3 | 1 | | | : |
| 7 - 12 | : | 5 | | 1 | 37 | 240 | 40 | 11 | 4 | 3 | 4 | 18 | 44 | 3 | 1 | : |
| 3 - 7 | : | 17 | 11 | 50 | 147 | 257 | 54 | 28 | 12 | 16 | 22 | 46 | 68 | 53 | 23 | : |
| LT 3 | : | 17 | 29 | 68 | 104 | 80 | 28 | 24 | 12 | 10 | 9 | 15 | 22 | 18 | 13 | : |
| TOTAL | : | 39 | 40 | 119 | 288 | 585 | 124 | 63 | 28 | 29 | 35 | 79 | 137 | 118 | 39 | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 131(7.41 X)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 22 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - B

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | TOTAL | | | |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-------|-----|---|-----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | | WSW | W | WNW | NW | NNW |

| | | | | | | | | | | | | | | | | | |
|-----------|---|----|----|-----|-----|----|---|---|---|---|----|----|----|---|----|--|---|
| GT 24 : | | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | | | | | | | | | | | : |
| 12 - 18 : | | | | | 4 | | | | | | | 2 | 1 | | | | : |
| 7 - 12 : | 1 | 3 | 31 | 109 | 5 | 3 | | | 1 | 5 | 31 | 15 | 2 | | | | : |
| 3 - 7 : | 3 | 7 | 16 | 60 | 118 | 14 | 1 | 1 | 1 | 7 | 27 | 27 | 7 | | 6 | | : |
| LT 3 : | 1 | 4 | 24 | 41 | 40 | 6 | 3 | 1 | 0 | 4 | 9 | 10 | 3 | | 5 | | : |
| TOTAL : | 5 | 11 | 43 | 132 | 271 | 25 | 7 | 2 | 1 | 3 | 69 | 53 | 12 | 0 | 11 | | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 57(8.62 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 22 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - C

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|----|-----|-----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| GT 24 | : | | | | | | | | | | | | | | | | : | |
| 18 - 24 | : | | | | | | | | | | | | | | | | : | |
| 12 - 18 | : | | | 11 | 13 | | | | | | 4 | | | | | | : | |
| 7 - 12 | : | | 1 | 37 | 108 | 1 | | | | 1 | 19 | 14 | | | | | : | |
| 3 - 7 | : | 5 | 3 | 8 | 47 | 71 | 4 | 4 | | 4 | 27 | 34 | 5 | | | | : | |
| LT 3 | : | 3 | 6 | 21 | 43 | 32 | 6 | 0 | | 1 | 13 | 13 | 4 | | | 1 | : | |
| TOTAL | : | 8 | 9 | 30 | 138 | 224 | 11 | 4 | 0 | 1 | 6 | 63 | 61 | 9 | 0 | 1 | : | |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 57(10.09 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. - 22 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - D

| WIND SPEED | | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|------------|----|----------------|-----|----|-----|-----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|-------|-------|
| MPH | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | |
| GT | 24 | : | | | | | | | | | | | | | | | | : | |
| 18 - | 24 | : | | | | | | | | | | | | | | | | : | |
| 12 - | 18 | : | | | 25 | 14 | | | | | | | 1 | | | | | : | |
| 7 - | 12 | : | 2 | | 1 | 48 | 84 | | | | | | 7 | 5 | | | | : | |
| 3 - | 7 | : | 6 | 2 | 4 | 16 | 30 | | | | | | 14 | 4 | | | 1 | : | |
| LT | 3 | : | 3 | 7 | 8 | 21 | 11 | 5 | 1 | | 1 | 1 | 10 | 6 | | 0 | | : | |
| TOTAL | | : | 11 | 9 | 13 | 110 | 139 | 5 | 0 | 1 | 1 | 1 | 32 | 15 | 0 | 0 | 1 | : | |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 39(11.54 X)

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 22 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - E

WIND SPEED
MPH

| | N | NNE | NE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|--|---|-----|----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
|--|---|-----|----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|

| | | | | | | | | | | | | | | | | |
|-----------|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|
| GT 24 : | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | | | | | | | | | | : |
| 12 - 18 : | | | 11 | 6 | | | | | | | | | | | | : |
| 7 - 12 : | | | 8 | 23 | | | | | | | 2 | | | | | : |
| 3 - 7 : | | | 3 | 4 | 1 | | | | | 2 | 1 | | | | 2 | : |
| LT 3 : | | | 6 | 8 | 0 | 1 | | | | 3 | 0 | | | | 1 | : |
| TOTAL : | 0 | 0 | 28 | 41 | 1 | 1 | 0 | 0 | 0 | 7 | 1 | 0 | 0 | 0 | 3 | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 17(20.73 %)

ATLANTIC RICHFIELD COMPANY
CORPORATION

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. 22 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS = TOTAL

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|-----|-----|------|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|--------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| GT 24 : | | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | | | | | | | | | | | : |
| 12 - 18 : | | | | 47 | 45 | 2 | | | | | 10 | 2 | | | | | : 106 |
| 7 - 12 : | 8 | | 6 | 161 | 564 | 46 | 14 | 4 | 3 | 5 | 24 | 103 | 78 | 5 | | 1 | : 1022 |
| 3 - 7 : | 31 | 23 | 78 | 273 | 480 | 73 | 33 | 13 | 17 | 23 | 57 | 138 | 121 | 35 | 13 | 19 | : 1427 |
| LT 3 : | 25 | 47 | 124 | 214 | 172 | 48 | 31 | 15 | 11 | 13 | 24 | 55 | 49 | 22 | 11 | 17 | : 878 |
| TOTAL : | 64 | 70 | 208 | 695 | 1261 | 169 | 78 | 32 | 31 | 41 | 105 | 306 | 250 | 62 | 24 | 37 | : 3433 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 301(8.77 %)

| | | |
|---------------|---------------|---------|
| PERCENTAGE OF | A STABILITY = | 51.47 % |
| PERCENTAGE OF | B STABILITY = | 19.25 % |
| PERCENTAGE OF | C STABILITY = | 16.46 % |
| PERCENTAGE OF | D STABILITY = | 9.85 % |
| PERCENTAGE OF | E STABILITY = | 2.39 % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS = A

WIND SPEED
MPH

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|--|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
|--|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|

| | | | | | | | | | | | | | | | | | |
|-------|----|---|----|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|---|
| GT | 24 | : | | | | | | | | | | | | | | | : |
| 18 " | 24 | : | | | | | | | 1 | | | | | | | | : |
| 12 " | 18 | : | | | | | | 6 | 10 | 29 | 8 | | 1 | | | | : |
| 7 " | 12 | : | | | | 1 | | 19 | 22 | 14 | 10 | 5 | 1 | 1 | 2 | | : |
| 3 " | 7 | : | 2 | 2 | 4 | 6 | 10 | 13 | 6 | 10 | 45 | 15 | 2 | 12 | 15 | 21 | : |
| LT | 3 | : | 17 | 26 | 29 | 58 | 54 | 71 | 84 | 65 | 161 | 236 | 75 | 26 | 58 | 66 | : |
| TOTAL | | : | 19 | 28 | 33 | 64 | 65 | 84 | 90 | 100 | 232 | 324 | 108 | 33 | 72 | 89 | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 880(59.18 %)

TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - B

WIND DIRECTION

WIND SPEED
MPH

| | NNN | NN | MNM | M | MSM | S | SSS | ESE | E | ENE | NNE |
|-------|-----|----|-----|---|-----|---|-----|-----|---|-----|-----|
| TOTAL | NNN | NN | MNM | M | MSM | S | SSS | ESE | E | ENE | NNE |

GT 24 :

10248

2182

7 12 1

75

25

TOTAL

| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE | 525(50.05 %) |
|---|----------------|
| 1 | 1 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |
| 8 | 1 |
| 9 | 1 |
| 10 | 1 |
| 11 | 1 |
| 12 | 1 |
| 13 | 1 |
| 14 | 1 |
| 15 | 1 |
| 16 | 1 |
| 17 | 1 |
| 18 | 1 |
| 19 | 1 |
| 20 | 1 |
| 21 | 1 |
| 22 | 1 |
| 23 | 1 |
| 24 | 1 |
| 25 | 1 |
| 26 | 1 |
| 27 | 1 |
| 28 | 1 |
| 29 | 1 |
| 30 | 1 |
| 31 | 1 |
| 32 | 1 |
| 33 | 1 |
| 34 | 1 |
| 35 | 1 |
| 36 | 1 |
| 37 | 1 |
| 38 | 1 |
| 39 | 1 |
| 40 | 1 |
| 41 | 1 |
| 42 | 1 |
| 43 | 1 |
| 44 | 1 |
| 45 | 1 |
| 46 | 1 |
| 47 | 1 |
| 48 | 1 |
| 49 | 1 |
| 50 | 1 |
| 51 | 1 |
| 52 | 1 |
| 53 | 1 |
| 54 | 1 |
| 55 | 1 |
| 56 | 1 |
| 57 | 1 |
| 58 | 1 |
| 59 | 1 |
| 60 | 1 |
| 61 | 1 |
| 62 | 1 |
| 63 | 1 |
| 64 | 1 |
| 65 | 1 |
| 66 | 1 |
| 67 | 1 |
| 68 | 1 |
| 69 | 1 |
| 70 | 1 |
| 71 | 1 |
| 72 | 1 |
| 73 | 1 |
| 74 | 1 |
| 75 | 1 |
| 76 | 1 |
| 77 | 1 |
| 78 | 1 |
| 79 | 1 |
| 80 | 1 |
| 81 | 1 |
| 82 | 1 |
| 83 | 1 |
| 84 | 1 |
| 85 | 1 |
| 86 | 1 |
| 87 | 1 |
| 88 | 1 |
| 89 | 1 |
| 90 | 1 |
| 91 | 1 |
| 92 | 1 |
| 93 | 1 |
| 94 | 1 |
| 95 | 1 |
| 96 | 1 |
| 97 | 1 |
| 98 | 1 |
| 99 | 1 |
| 100 | 1 |

STABILITY CLASS - C

ATLANTIC RICHFIELD COMPANY

TRAILER NO. = 23 PERIOD(10/ 1/74 TO 10/31/74)

WIND DIRECTION

| WIND SPEED
MPH | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------------|----|---|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|-------|
| GT | 24 | : | | | | | | | | 2 | 1 | | | | 1 | | | : |
| 18 - | 24 | : | | | | | | | | | | | | | | | | : |
| 12 - | 18 | : | | | | | 1 | | 4 | 0 | 5 | | | | 0 | | | : |
| 7 - | 12 | : | | | | | 6 | 4 | 13 | 11 | 2 | 1 | | | 1 | 5 | 1 | : |
| 3 - | 7 | : | 2 | 5 | 17 | 11 | 6 | 16 | 14 | 8 | 55 | 27 | 14 | 5 | 15 | 8 | 9 | : |
| LT | 3 | : | 5 | 7 | 20 | 12 | 24 | 35 | 23 | 57 | 203 | 97 | 30 | 25 | 25 | 20 | 15 | : |
| TOTAL | | : | 7 | 12 | 38 | 23 | 30 | 58 | 54 | 78 | 266 | 125 | 44 | 30 | 42 | 33 | 25 | : |

| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE " | |
|---|--|
| 381(41.41 %) | |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. " 23 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS " D

| WIND SPEED
MPH | | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|-------------------|----|----------------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| GT | 24 | : | | | | | | | | | | | | | | | | |
| 18 " | 24 | : | | | | | | | | | | | | | | 1 | | 1 |
| 12 " | 18 | : | | | | 2 | | | | | | | | | | 3 | 1 | 6 |
| 7 " | 12 | : | 2 | | | 3 | 3 | 6 | 1 | | | 1 | | | 1 | 1 | 3 | 21 |
| 3 " | 7 | : | 3 | 6 | 13 | 9 | 8 | 13 | 5 | 1 | 2 | 19 | 8 | 1 | 7 | 19 | 6 | 120 |
| LT | 3 | : | 12 | 5 | 17 | 11 | 10 | 27 | 11 | 5 | 8 | 51 | 18 | 9 | 8 | 29 | 15 | 242 |
| TOTAL | | : | 17 | 11 | 30 | 20 | 18 | 45 | 19 | 12 | 11 | 70 | 27 | 10 | 6 | 53 | 25 | 390 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE " 147(37.69 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 23 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - E

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | NNW | NW | NNW | TOTAL |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-----|----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | | | | |

| | | | | | | | | | | | | | | | | | |
|---------|---|---|---|----|----|---|----|----|----|-----|-----|----|----|---|---|---|---|
| GT 24 | : | | | | | | | | | 1 | | | | | | | : |
| 18 - 24 | : | | | | | | | 7 | 7 | 1 | | | | | | | : |
| 12 - 18 | : | | | | | | | 17 | 38 | 4 | 1 | | | | | | : |
| 7 - 12 | : | | | | | | | 9 | 27 | 28 | 12 | 13 | 7 | 1 | | | : |
| 3 - 7 | : | | | 7 | 9 | 2 | 10 | 13 | 10 | 18 | 47 | 11 | 2 | 1 | 5 | 4 | : |
| LT 3 | : | 4 | 1 | 4 | 9 | 2 | 11 | 9 | 14 | 11 | 23 | 6 | 1 | 1 | 2 | 5 | : |
| TOTAL | : | 4 | 1 | 11 | 18 | 4 | 21 | 22 | 57 | 102 | 103 | 30 | 16 | 3 | 7 | 9 | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 36(8.61 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. 24 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS = A

WIND SPEED
MPH

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|--|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
|--|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|

| | | | | | | | | | | | | | | | | | |
|-------|----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| GT | 24 | : | | | | | | | | | | | | | | | : |
| 18 - | 24 | : | | | | | | | | | | | | | | | : |
| 12 - | 18 | : | | | | | | | | | | | | | | | : |
| 7 - | 12 | : | | | | | | | | | | | | | | | : |
| 3 - | 7 | : | | | | | | | | | | | | | | | : |
| LT | 3 | : | | | | | | | | | | | | | | | : |
| TOTAL | : | | | | | | | | | | | | | | | | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 0(0.00 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. = 24 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS " B

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | TOTAL | | | | |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-------|-----|---|-----|----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | | WSW | W | WNW | NW | NNW | TOTAL |

| | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GT 24 | : | | | | | | | | | | | | | | | | |
| 18 - 24 | : | | | | | | | | | | | | | | | | |
| 12 - 18 | : | | | | | | | | | | | | | | | | |
| 7 - 12 | : | | | | | | | | | | | | | | | | |
| 3 - 7 | : | | | | | | | | | | | | | | | | |
| LT 3 | : | | | | | | | | | | | | | | | | |
| TOTAL | : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 0(0.00 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 24 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - C

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | TOTAL | | | | |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|-------|----|-----|---|-----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | | SW | WSW | W | WNW | NW | NNW |

| | | | | | | | | | | | | | | | | |
|---------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| GT 24 | : | | | | | | | | | | | | | | | |
| 18 - 24 | : | | | | | | | | | | | | | | | |
| 12 - 18 | : | | | | | | | | | | | | | | | |
| 7 - 12 | : | | | | | | | | | | | | | | | |
| 3 - 7 | : | | | | | | | | | | | | | | | |
| LT 3 | : | | | | | | | | | | | | | | | |

TOTAL

:

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE =

0(0.00 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 24 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS - D

WIND SPEED
MPH

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|--|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
|--|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|

| | | |
|------|----|---|
| GT | 24 | : |
| 18 - | 24 | : |
| 12 - | 18 | : |
| 7 - | 12 | : |
| 3 - | 7 | : |
| LT | 3 | : |

TOTAL

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 0(0.00 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. 24 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS = E

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | TOTAL | | | | | |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|-------|----|-----|---|-----|----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | | SW | WSW | W | WNW | NW | NNW | TOTAL |

| | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GT 24 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 18 - 24 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 12 - 18 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 7 - 12 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 3 - 7 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| LT 3 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| TOTAL | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 0(0.00 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. = 24 PERIOD(10/ 1/74 TO 10/31/74)

STABILITY CLASS = TOTAL

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | TOTAL | | | | |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-------|-----|---|-----|----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | | WSW | W | WNW | NW | NNW | TOTAL |

| | | |
|-------|----|---|
| GT | 24 | : |
| 18 - | 24 | : |
| 12 - | 18 | : |
| 7 - | 12 | : |
| 3 - | 7 | : |
| LT | 3 | : |
| TOTAL | : | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE = 0(0.00 %)

| | | | | | |
|---------------|---|-----------|---|------|---|
| PERCENTAGE OF | A | STABILITY | = | 0.00 | % |
| PERCENTAGE OF | B | STABILITY | = | 0.00 | % |
| PERCENTAGE OF | C | STABILITY | = | 0.00 | % |
| PERCENTAGE OF | D | STABILITY | = | 0.00 | % |
| PERCENTAGE OF | E | STABILITY | = | 0.00 | % |

RADIAN

CORPORATION

RC#100-056

AIR MONITORING REPORT
FOR
C-b SHALE OIL PROJECT
NOVEMBER 1974
Report No. 3

23 January 1975

Presented to:
C-b Shale Oil Project
Suite 555, Two Park Central
1515 Arapahoe Street
Denver, Colorado 80202
Attn: Mr. Max Legatski

Prepared by:
Radian Staff

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I. GENERAL DESCRIPTION OF AIR MONITORING PROGRAM

Radian Corporation is under contract to C-b Shale Oil Projects to provide ambient air quality monitoring. Each site measures and records the concentration of particulates, sulfur dioxide, and hydrogen sulfide. In addition, two of the sites record the amounts of nitrogen oxides, total hydrocarbons, methane, ozone, and carbon monoxide. Selected meteorological parameters such as wind speed, wind direction, temperature, and rainfall are monitored at each station. A 200-foot meteorological tower at one of the sites provides meteorological information as a function of height.

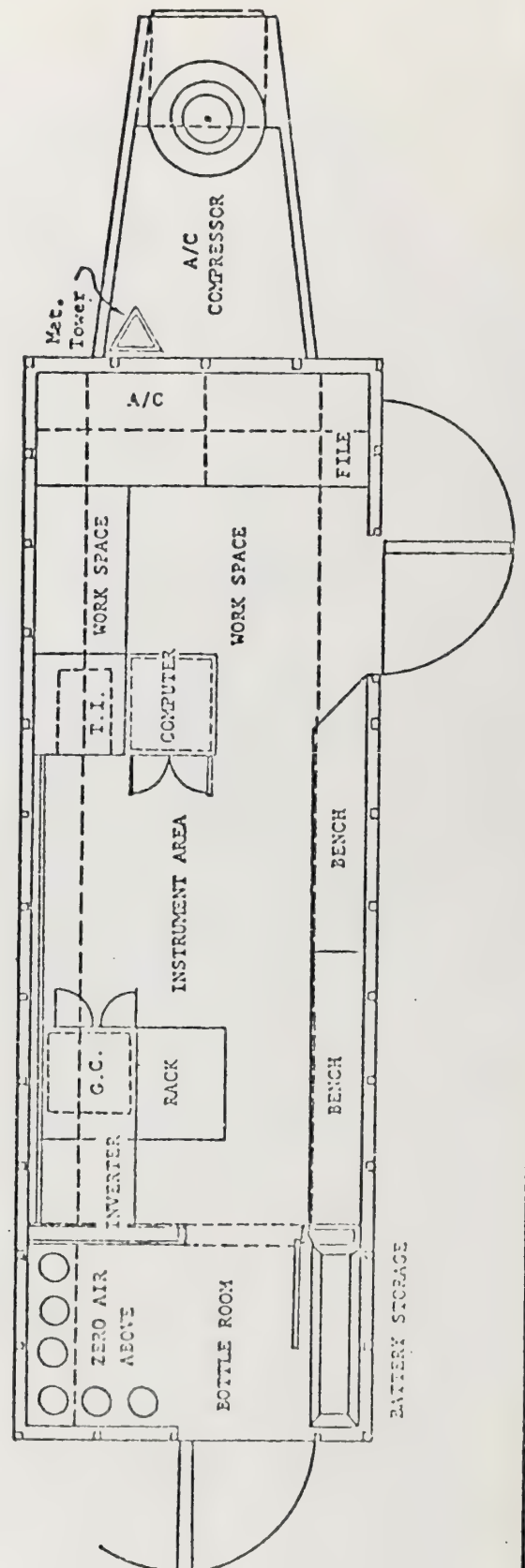
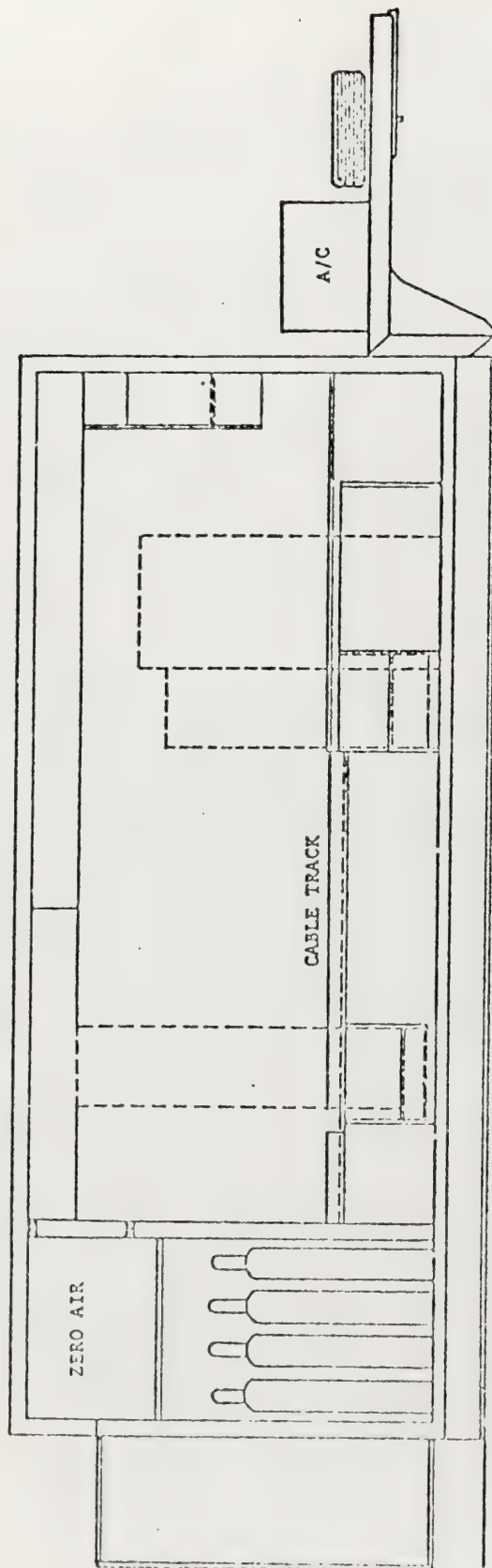


Figure 1

II. DESCRIPTION OF INSTRUMENT SYSTEMS

A. Air Quality Instrumentation

Nitrogen oxides are measured with a Meloy Model NA520 analyzer. This dual-channel analyzer is based on the chemiluminescent principle, and continuously monitors both NO_x and NO. A subtraction circuit in the instrument provides a continuous NO_2 output, but is not used in Radian's system. NO_2 is calculated once a second by the computer by subtracting the NO value from the NO_x value, thus avoiding any drift which might occur in the NO_2 output of the instrument. This instrument has a minimum detectable sensitivity of 5 ppb (parts per billion), and a linearity of 1%.

Both sulfur dioxide and hydrogen sulfide are measured with Meloy Model SA185 sulfur analyzers. The hydrogen sulfide analyzer uses a Meloy Model SO_x -1 sulfur dioxide scrubber and the sulfur dioxide analyzer uses a Meloy Model H_2S -1 hydrogen sulfide scrubber. The Model SA185 is a continuous analyzer, and utilizes the flame photometric principle of operation. The minimum detectable sensitivity is 5 ppb, and the linearity is $\pm 1\%$.

Ozone is measured with a Meloy Model OA350 analyzer. This instrument provides continuous measurement of ozone, and is based on the chemiluminescent principle. The minimum detectable sensitivity is 0.5 ppb and the linearity is 1%.

Total hydrocarbons, methane, and carbon monoxide are monitored with a Bendix Model 8200 gas chromatograph analyzer. This instrument uses a plume ionization detector and has a minimum detectable sensitivity of 5 ppb for all three components. The Model 8200 works on a five-minute cycle, i.e., one air sample is analyzed every five minutes.

The air sample is drawn in through a glass cane and manifold supplied by the Ace Glass Company. The system has a 25mm diameter, and a constant air flow through the system is provided by an air pump rated at 60 cfm at 0" head pressure. The manifold has sampling ports to which $\frac{1}{4}$ " teflon lines to the instruments are connected. All joints in the sampling system are secured by O-ring compression fittings. The manifold is contained in a heated (100°F) chamber to prevent condensation of moisture. The teflon lines from the manifold to the instruments are insulated with 1/8" wall thickness rubber tubing.

The trailer has four heavy duty high volume particulate samplers (Hi-Vols). Fiberglass filter paper is used for collection of particulate samples, and each filter is brought to a controlled humidity before weighing. Each Hi-Vol has a flow recorder to permit correction for changes in air flow as the filter becomes loaded with particulates. Each Hi-Vol runs for a 24-hour period (midnight to midnight), and is turned on and off by the computer. The Hi-Vols were designed following guidelines recommended by the Environmental Protection Agency and were manufactured by Radian.

B. Calibration Procedures

Each trailer contains a Meloy Model RAD-1 calibration unit. This instrument provides a zero air supply, SO₂ span gas from an SO₂ permeation tube, and NO span gas obtained by precisely diluting bottled NO span gas. The calibration of all instruments is automatically performed once a day, and is controlled by the computer. Each instrument is first switched to zero, and the computer monitors the output of each channel and takes a new zero reading after a stable zero signal has been reached. This zero reading is compared by the computer to the zero reading

obtained 24 hours before, and if a drift in excess of 10ppb has occurred, an excess zero drift light for the channel in question is turned on on the System Status Panel. Next, span gas is supplied to each channel and the computer decides when a stable span value has been reached. This value is recorded and compared to the previous day's value. An excess span drift light on the System Status Panel is turned on if a drift exceeding 10ppb occurs. The instruments are then returned to the monitor mode, and after two minutes the computer resumes data taking.

The bottled NO gas used at each site was obtained from Precision Gas Products. Pre-purified grade hydrogen is used in the SO₂ analyzers.

The SO₂ permeation tubes were manufactured by Metronics Association, Inc. Their output has been verified by comparison to the output of National Bureau of Standards tube 10-42. Both SA185 analyzers in each trailer are calibrated with SO₂ from the permeation tube. This instrument responds to the number of sulfur atoms per molecule, thus SO₂ can be used to calibrate both the H₂S and SO₂ monitors

The Model OA350 ozone analyzer has its own calibration system which provides a zero check and a span check. The ozone calibration system is verified by comparison to a calibrated ozone generator maintained in Radian's laboratory in Rifle.

The Model 8200 total hydrocarbon, methane, and carbon monoxide analyzer is calibrated with undiluted span gas obtained from Airco's Rare and Specialty Gas Division. This span gas contains methane and carbon monoxide in air, the methane being used to calibrate both the total hydrocarbon channel and the methane channel. The Model 8200 is zeroed with air from a

Bendix Model 8834 zero air unit. In addition the instrument is electronically re-zeroed at the start of every five-minute cycle.

The Hi-Vol particulate samplers were calibrated using a Calibration Kit from General Metal Works.

C. Data Acquisition System

The basis of the data acquisition system is a Data General NOVA 1200 minicomputer. The NOVA which has a basic cycle time of 1.2 μ sec is equipped with automatic program load and power fail/automatic restart features. The computer utilizes 16K 16-bit words of core memory. Analog-to-digital conversion is accomplished via an ADC built by Radian Corporation. The input/output unit for the system is Texas Instrument's KSR 733 keyboard/printer. This model teletype provides keyboard entry and hard copy printed output. The data are also recorded on a cassette magnetic tape unit with three drives. The cassette unit is utilized for program storage and loading as well as recording. The power to the teletype and cassette units is turned on only when the unit(s) is to be used to reduce wear on mechanical parts. Several important functions in the instruments as well as in the computer and the trailer are monitored by means of lights on a System Status Panel. These data lights are written onto cassette tape to monitor the complete status of the system every five minutes. The Data Acquisition System also monitors the presence of 110V power from the power lines. In its absence, the computer, which is powered by batteries, switches all trailer systems to battery-provided power. If the line voltage is restored before the batteries are discharged to a specified level, the trailer system is switched back to line power.

D. Meteorological Instrumentation

1. Ambient Air Monitoring Trailers

Four of the ambient air monitoring trailers are equipped with the following meteorological instrumentation: (1) dry bulb temperature (outside), (2) relative humidity, (3) wind direction, (4) wind speed, and (5) a tipping bucket, heated rain/snow gage. The temperature probe and relative humidity sensor are mounted inside a motor aspirated radiation shield, the Model 1S6 Aspirated Radiation Shield by Weather Measure, which gives an aspiration of approximately 100 cfm. The wind instrumentation and temperature and relative humidity apparatus (in the aspirated radiation shield) are all mounted atop a 33-foot crank-up meteorological tower (the WM-33, by Weather Measure) at each of the four trailer sites.

The wind instrumentation at the monitoring trailers consists of the Model W103/3L Lightweight Cup Anemometer by Weather Measure and the Model W104-2 Lightweight Vane by Weather Measure. The anemometer is a high response, low threshold wind system which offers the optimum in versatility and economy. For low threshold applications, a unique frictionless tachometer employing a high frequency oscillator and receiver is used to measure precisely wind speed. The oscillator, transmitter, and receiver are encapsulated in a small cube of epoxy for total protection against the environment. The high frequency tachometer embodies several distinct advantages over the commonly used light chopper systems. There are no light bulbs or photocells to burn out; power consumption is low; and the system is insensitive to moisture condensation or dust deposition. The solid state tachometer is essentially free from maintenance with a life of well over five years when operated continuously. The specifications of the W103 Cup Anemometer are as follows:

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- Accuracy: $\pm 1\%$ or .15 mph, whichever is greater.
- Bearings: Sealed and shielded precision stainless steel.
- Threshold: 0.6 miles per hour
- Distance Constant: 5 feet

The wind vane, the W104-2, is equipped with a 1000 ohm low torque potentiometer and two wipers for 0° to 540° operations. The response characteristics of this vane are:

- Dead Band: 0 degrees
- Damping Ratio: 0.4
- Distance Constant: 3.5 feet
- Threshold: 0.75 miles per hour
- Potentiometer Linearity: 0.5%

The thermistor probe used in the motor aspirated radiation shields is the Model T621-TP18X Air Temperature Premium Thermistor Probe by Weather Measure. This probe has a range of -50°C to $+50^{\circ}\text{C}$ and an interchangeability of $\pm 0.055^{\circ}\text{C}$. The output signal accuracy is $\pm 0.3^{\circ}\text{F}$.

The relative humidity sensor is the Model 2013 Remote Reading Relative Humidity System by Texas Electronics. The sensor assembly contains a newly-developed hygroscopic inorganic sensing

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element. Its expansion and contraction positions the suspended core of a linear variable differential transformer (LVDT). The absence of friction inducing linkages and wiping contacts minimizes hysteresis and improves accuracy. The LVDT output signal, when processed, is directly proportional to relative humidity. The specifications of this instrument are as follows:

- Range of Indication: 0% to 100% RH
- Response: The sensor response time to a step change of 10% in relative humidity is less than 2 minutes with the sensor exposed to moving air.
- Accuracy: 5% - 15% RH; $\pm 5\%$ RH
15% - 95% RH; $\pm 2\%$ RH
95% -100% RH; $\pm 3\%$ RH
- Signal Output: Analog signal of -150 mv. to +150 mv. with electrical zero at 50% RH is standard.

Each of the four monitoring trailers is equipped with a Model P511-E Remote Recording Heated Snow Gage by Weather Measure. In the case of this gage, the durability and reliability of a tipping bucket gage are combined with heavy-duty electric heaters to make this an all-purpose precipitation sensor. This gage may be used to measure snowfall and rainfall. An insulating cover of poly-vinyl chloride and a thermostatic control insure the proper gage temperature. The thermostatic control is adjustable from 0 to 35°C. Snow falling into the inlet funnel is melted. The resulting water (from rain or snow) drains into a precision tipping bucket mechanism which activates a mercury switch each time the bucket fills and tips. The gage is constructed

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of durable corrosion-resistant materials to provide many years of service. The specifications of this gage are as follows:

- Orifice: 8 inches
- Calibration: 0.01 inch
- Accuracy: 0.5% (Calibrated at 0.5 in/hr)
- Sensor: Chrome plated tipping buckets
- Switch: Mercury, 0.1 second closure
- Heat Control: Thermostat adjustment, 0' to 35°C.

2. 200-Foot Meteorological Tower

The tower has instrumentation at four levels: 8 feet, 30 feet, 100 feet, and 200 feet. At all four levels, there are: wind speed, wind direction, and temperature and relative humidity sensors in a power aspirated radiation shield. Temperature difference thermistors (also in power aspirated radiation shields) and their associated circuitry take lapse rate measurements for the 30-foot to 100-foot layer and the 30-foot to 200-foot layer. In addition, this site has a Precision Spectral Pyranometer, a barometer, and a tipping bucket rain/snow gage.

The wind direction and speed apparatus used at each measurement level of the tower is the Model 1074-2 wind sensor by Meteorological Research, Inc. (MRI). This sensor has a 540° potentiometer for wind direction and a light chopper for wind speed. This sensor is rugged, with an all-weather coaxial cup and

damped vane assembly. The prototype model has been in operation for years under the most demanding weather conditions, performing continuously with the utmost reliability. All of the wind sensors on the tower have been specially treated with a black paint which will promote warming of the exposed surfaces of the sensor and thereby reduce ice and snow accumulations on the moving parts of the apparatus. The specifications on the Model 1074-2 are as follows:

Wind Speed

- Starting Threshold: 0.75 mph
- Response Distance: 18 feet (63% recovery)
- Flow Coefficient: 7.9 feet/Revolution
- Accuracy: ± 0.4 mph or 1% (whichever is greater)
- Range: 0-100 mph

Wind Direction

- Starting Threshold: 0.75 mph
- Delay Distance: 4 feet (50% recovery)
- Damping Ratio: 0.5 to 0.6
- Accuracy (540° system): $\pm 1\%$
- Range: 0° to 540°

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The relative humidity and temperature sensors are mounted within a power aspirated radiation shield at each tower level. All aspirators and sensors are of the Model 840 Series by MRI. The aspirated shielded housing is designed to provide maximum radiation protection to the sensor. Ambient air is drawn into the shield and across the sensors at approximately 15 feet per second. This intake air is essentially sampled from a hemispherical space which is approximately 3-inch radius from the tube opening. Speed of the incoming air at the periphery of this hemisphere is approximately 1 mph.

The temperature sensor is comprised of a dual thermistor and resistor network. This circuit provides a linear resistance change with an air temperature change. The relative humidity sensor is placed alongside the temperature elements inside the shield where it is exposed to a constant flow of air. Circulation to both sides of the sensing element produces accurate monitoring with a good response time. The specifications on the sensing elements are as follows:

Temperature

- Accuracy: $\pm 0.25^{\circ}\text{C}$
- Range: -50°C to $+50^{\circ}\text{C}$

Humidity

- Accuracy: $\pm 3.0\%$ RH
- Range: 0% to 100% Relative Humidity

Measurements of temperature difference are taken for two layers, the 30-foot to 100-foot layer and the 30-foot to 200-foot

layer. The thermistors and circuitry used for these measurements are separate from the thermistors measuring air temperature. The use of separate thermistors and circuitry to measure ΔT allows for much greater accuracy and resolution in the measurements, which is necessary for stability assessments. Two ΔT thermistors are at the 30-foot level, one is at the 100-foot level, and one is at the 200-foot level. All of these ΔT thermistors are mounted within power aspirated radiation shields. The specifications on the ΔT instrumentation are as follows:

- Accuracy: $\pm 0.1^{\circ}\text{C}$
- Range of ΔT Circuit
(Lower Level-Upper Level): $+4^{\circ}\text{F}$ to -8°F

All instrumentation, except at the ground level, is mounted at the end of 12-foot retractable booms. These booms are 3-inch box beams which are on rollers and can be retracted to the instrument platforms for instrument maintenance.

The meteorological tower itself is a 200-foot Rohn Model 80 Guyed Tower, designed for 40 pounds per square foot wind load with $\frac{1}{2}$ " of radial ice per EIA Standard RS-222-B, to support four levels of meteorological equipment. The material consists of tower sections with a tapered base, three retractable booms 12-feet long, three outside work platforms, an inside ladder for climbing, two base ground kits and one anchor ground kit. The cable-type Safety Climbing Device consists of a cable and attachment mechanisms with a locking sleeve and safety belt. The tower is lighted and painted according to FAA specifications.

The signals from the tower instrumentation are fed from multiple signal cables into transmitters mounted at the base of

the tower. After signals have been converted to analog signals, they are fed into a junction box, also at the tower base, where they are assimilated into one coaxial cable. The signals are then run underground within 3" PVC conduit to the A-to-D assembly, where they are processed. The transmitters are shielded and insulated from the elements. The signal cable is run underground in PVC conduit in order to minimize damage from the weather or various rodents in the region.

The auxiliary equipment at the tower site consists of a heated tipping bucket rain/snow gage, an analog barometer, and a Precision Spectral Pyranometer. The rain/snow gage is the Model P511-E unit by Weather Measure, with characteristics and specifications as described in Section 1. The barometer is the B242 Analog Output Barometer by Weather Measure. This barometer provides an output voltage that is linearly proportional to pressure. The specifications on this instrument, which is mounted inside the monitoring trailer at the site, are as follows:

- Range: Specially designed for the 100 millibar interval from 725 millibars to 825 millibars.
- Resolution: Infinite
- Linearity: ± 0.5 millibar, over the 100 millibar interval

The pyranometer at the site is the Eppley Precision Spectral Pyranometer. This instrument is used for the measurement of sun and sky radiation totally or in defined wavelength bands. The pyranometer is levelled and mounted atop a wooden stand 4½ feet from the ground surface. Care has been taken to

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eliminate the effects from all outside influences, such as reflection or shadows, on the pyranometer. The instrument characteristics are as follows:

- Sensitivity: 5 mv. per cal/cm²/min
- Independence: 300 ohms
- Temperature dependence: Sensitivity constant to within ± 1 percent over the ambient temperature range from -20 to +40°C
- Linearity: Response linear up to intensities of 4 cal/cm²/min
- Response Time: 1 second (i/e signal)

All instrumentation is factory calibrated and is field-calibrated at various intervals. Sling psychrometers are used to calibrate the humidity sensors, known temperatures and/or resistances are used to calibrate the thermistors, and an rpm calibrating unit is used to calibrate the anemometers. The wind direction instrumentation is aligned to true north (reference direction) by means of a surveyor's transit.

III. MICROMETEOROLOGICAL AND TERRAIN FEATURES

The Piceance Creek Valley and C-b Oil Shale Tract are situated such that many microscale meteorological phenomena affect the region where the ambient air monitoring units are located. In particular, the three units in the Piceance Creek Valley (Trailers 020, 021, and 022) are heavily influenced by a katabatic-anabatic flow regime. Trailer 023 and its associated 200-foot meteorological tower are located atop a plateau to the south of the valley, high enough to be affected mostly by gradient flow conditions. Trailer 024, located half-way between the valley and the meteorological tower, is affected by a mixture of the gradient and mountain-valley flow regimes.

Elevations in the monitoring network range from about 6200 feet above sea level at Trailer 021, near the Rock Creek School in the valley at the westernmost end of the monitoring network, to 6940 feet at the meteorological tower site (Trailer 023) atop the plateau within the Tract C-b itself. The largest gradients in elevation in this area, of course, occur at the Piceance Creek Valley walls. However, the northern valley walls are slightly steeper than those at the southern boundary of the valley, which then slopes upward gradually toward the C-b Tract. The Piceance Creek Valley decreases in elevation from east to west in this area, so that nighttime katabatic cold-air drainage flows advect from east to west, or from Trailer 022 to Trailer 020 to Trailer 021.

As mentioned at the outset of this discussion, the terrain will have a large influence on the meteorology of this region. Considering first Trailer 022, at the eastern end of the monitoring network, a nighttime katabatic (valley or down-slope) flow will exert a tremendous influence on this site.

Of the three monitoring locations in the Piceance Creek Valley, this site has the steepest valley walls in its vicinity. As a result, the nighttime katabatic flow is strongest here. That is, the downslope winds are constrained or channelled at this point such that the nighttime drainage winds often reach 15 miles per hour. In addition, the channelling effects of the Piceance Creek Valley walls normally cause surface winds to flow from one of two preferred directions. At night, the downslope winds parallel the valley contours, generally coming from 115° (east-southeast, referenced to true north). During the afternoon, or whenever suitable pressure gradient conditions exist, the winds generally come from the west-northwest because of the boundary conditions and channelling caused by the valley. This monitoring location has an elevation of approximately 6450 feet above sea level and is at the mouth of Oldland Gulch.

Trailer 020, midway down the Piceance Creek Valley near the Redd Ranch, at the mouth of Gardenhire Gulch, has an elevation of about 6320 feet above sea level. Once again, the valley walls are steeper to the north of this monitoring location. The Piceance Creek Valley widens a little from Trailer 022 to Trailer 020, so that channelling effects are not quite as great at this location. Nevertheless, a well-developed katabatic-anabatic flow cycle affects this site, with the afternoon anabatic flow being fairly well-developed at this location. The channelling effects of the valley walls cause two preferred surface wind directions, southeast and northwest. However, other wind directions are experienced here, particularly during the transition periods between downslope and upslope flows and during periods when the surface pressure gradient dictates to a large degree the surface wind direction.

Trailer 021, located near the Rock Creek School, has the lowest elevation of the three valley trailers, 6200 feet. At this point, the Piceance Creek Valley widens considerably toward the east, so that nighttime katabatic winds are rather light. Daytime anabatic winds are also rather light. However, northwesterly surface winds caused by pressure gradient forces are occasionally moderate in force because of the slight channeling effects of the valley walls to the north and northwest.

Site 023, where the 200-foot meteorological tower is located, is atop the plateau at an elevation of about 6940 feet above sea level. It is approximately 2.5 miles south of the Piceance Creek Valley. This location is relatively high compared to its surroundings, with the nearest points having elevations greater than 7000 feet being .5 miles to the south of the tower. The tower itself is on the top of a small knoll located between Scandard and Sorghum Gulches. Because of its location and the irregularities of the surrounding terrain, meteorological patterns are varied here.

Wind instrumentation is mounted at four levels of the meteorological tower: 8 feet, 30 feet, 100 feet, and 200 feet. The top level of the tower generally remains in gradient wind flow. That is, the winds at that level are normally generated by synoptic-scale features and are usually separated from terrain features and micrometeorological circulations. Occasionally, a weak anabatic flow influence is experienced. However, such is not the case with the three lowest measurement levels. To varying degrees, these levels are influenced by both the katabatic and anabatic circulation cells. However, when strong pressure gradient forces exist in the region and the synoptic-scale wind flow is strong, all four tower levels will reflect a gradient wind flow, with the winds increasing in strength with increasing height.

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Trailer 024 is between the Piceance Creek Valley and the meteorological tower location, about 1 mile south of the valley itself. The elevation of this site is approximately 6740 feet. The terrain slopes downward to the west, north, and east, and slopes upward toward the south, in the direction of the meteorological tower. This site is in a transition zone between the micrometeorological effects which prevail in the valley and those meteorological phenomena affecting the tower site. As a result, the meteorological parameters measured at this location are subject to rather rapid variations. The area is generally affected by a weak katabatic (downslope) flow at night and a weak anabatic (upslope) flow during the afternoon hours. However, gradient wind flows generally take precedence over terrain-induced flows at this location.

The terrain atop the plateau is generally barren and fairly rugged, with a few scattered small trees. The topsoil dries rapidly and is very fine, resulting in blowing dust when dry, windy conditions exist. In the Piceance Creek Valley, the terrain is fairly grassy and flat, with steep valley walls on either side. Surface winds are normally rather light in this valley unless channelling effects occur.

During clear nights with rather light pressure gradient-induced winds, rapid radiational cooling will occur in the region because of the barren nature of the terrain and the generally dry character of the air in this portion of the country. As a result, the diurnal range of temperatures will be extremely large. Because of the katabatic flow in the valley, nighttime temperatures will generally be lower in the valley than on the plateau. During the winter, especially, temperatures in the valley may be 20°F lower than they are on the plateau during the early morning hours. In particular, the drainage effects will be spectacular at Trailer 021, which will often experience

temperatures 10°F cooler than those at the other valley monitoring locations during the early morning hours. This phenomenon results from the pooling of cold air in the area of Trailer 021 because of its relatively low elevation and the light nature of the winds here during the night, which thus inhibits surface mixing and promotes the strengthening of the nighttime ground-based inversion. During periods of strong gradient winds and/or cloudy skies, greater mixing of the air near the surface occurs and meteorological conditions (particularly temperature and humidity) are more uniform throughout the monitoring network (on the plateau and in the valley).

IV. OPERATING TIME ANALYSIS FOR EACH SITE

This section presents the operating statistics for each of the major subsystems contained in each monitored station. Table II shows the specific number of hours that each of these subsystems was inoperative for the month. The column labeled "COMPUTER" indicates the entire data acquisition system and downtime hours appearing in this column and, therefore, means total loss of data. These instances include, in addition to computer downtime, power failures, no power available, and self-automated shutdown periods such as during air conditioner malfunctions.

Calibration time is not considered to be downtime and is, therefore, not included in the downtime figures. The amount of time used in calibrating the instruments is given at the bottom of the downtime analysis table and is reported as total calibration hours for each channel for the entire month. As is evident in the calibration figures, channels can be calibrated independently of one another. No calibration time is given for particulate monitoring since Hi-Vol calibration occurs infrequently and only during the off-duty cycle for each Hi-Vol while another Hi-Vol is taking data.

TABLE II. DOWNTIME HOURS FOR C-B OIL SHALE TRACT MONITORING PROJECT

TRAILER 322

| DATE | COMPUTER | NOX | NO | SO2 | PART | H2S | THC | CH4 | CO | O3 | WS | WD | RH | TEMP |
|------------------|----------|-----|-----|-----|------|-----|-----|-----|-----|-----|----|----|----|------|
| 11/1 | 1. | 0. | 0. | 0. | 24. | 0. | 19. | 19. | 13. | 0. | 0. | 0. | 0. | 0. |
| 11/2 | 0. | 0. | 0. | 0. | 24. | 0. | 24. | 24. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/3 | 0. | 0. | 0. | 0. | 24. | 0. | 24. | 24. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/4 | 1. | 1. | 11. | 1. | 24. | 1. | 23. | 23. | 23. | 11. | 1. | 1. | 0. | 0. |
| 11/5 | 1. | 1. | 2. | 1. | 24. | 1. | 20. | 20. | 14. | 14. | 1. | 1. | 0. | 0. |
| 11/6 | 0. | 1. | 1. | 1. | 24. | 0. | 22. | 22. | 1. | 1. | 1. | 1. | 0. | 0. |
| 11/7 | 0. | 1. | 1. | 1. | 24. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 0. | 0. |
| 11/8 | 0. | 1. | 1. | 1. | 24. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 0. | 0. |
| 11/9 | 0. | 0. | 7. | 0. | 24. | 0. | 9. | 9. | 8. | 0. | 0. | 0. | 0. | 0. |
| 11/10 | 0. | 1. | 1. | 24. | 24. | 21. | 23. | 23. | 23. | 0. | 0. | 0. | 0. | 0. |
| 11/11 | 0. | 1. | 1. | 4. | 24. | 11. | 23. | 23. | 23. | 1. | 0. | 0. | 0. | 0. |
| 11/12 | 0. | 0. | 0. | 0. | 24. | 0. | 24. | 24. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/13 | 0. | 0. | 0. | 0. | 24. | 0. | 23. | 23. | 23. | 0. | 0. | 0. | 0. | 0. |
| 11/14 | 0. | 0. | 2. | 0. | 24. | 1. | 12. | 12. | 12. | 0. | 0. | 0. | 1. | 1. |
| 11/15 | 0. | 1. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/16 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/17 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/18 | 0. | 1. | 1. | 1. | 24. | 0. | 1. | 1. | 1. | 1. | 1. | 1. | 0. | 0. |
| 11/19 | 15. | 0. | 0. | 0. | 24. | 0. | 1. | 1. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/20 | 0. | 0. | 0. | 0. | 24. | 0. | 11. | 11. | 12. | 0. | 0. | 0. | 0. | 0. |
| 11/21 | 0. | 1. | 1. | 0. | 24. | 0. | 7. | 7. | 0. | 1. | 0. | 0. | 0. | 0. |
| 11/22 | 1. | 0. | 0. | 0. | 24. | 0. | 9. | 9. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/23 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/24 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/25 | 0. | 1. | 1. | 1. | 24. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 0. | 0. |
| 11/26 | 0. | 1. | 1. | 1. | 0. | 1. | 1. | 1. | 2. | 1. | 0. | 0. | 0. | 0. |
| 11/27 | 1. | 0. | 0. | 1. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/28 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/29 | 0. | 0. | 3. | 0. | 0. | 0. | 1. | 1. | 0. | 0. | 0. | 0. | 0. | 2. |
| 11/30 | 0. | 0. | 0. | 0. | 24. | 0. | 1. | 1. | 1. | 0. | 0. | 0. | 0. | 0. |
| CALIBRATION TIME | | 3. | 5. | 2. | | 2. | 5. | 5. | 5. | 2. | 0. | 0. | 0. | 0. |

TABLE II,
DOWNTIME HOURS FOR C-B SHALE OIL PROJECT

TRAILER #21

| DATE | DIGITIZING
SYSTEM | S02 | PART | H2S | WS | WD | RH | TEMP |
|------------------|----------------------|-----|------|-----|----|----|----|------|
| 11/ 1 | 1. | 0. | 0. | 12. | 0. | 0. | 0. | 0. |
| 11/ 2 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 3 | 0. | 0. | 24. | 14. | 0. | 0. | 0. | 0. |
| 11/ 4 | 0. | 10. | 24. | 10. | 0. | 0. | 0. | 0. |
| 11/ 5 | 4. | 14. | 24. | 20. | 0. | 0. | 0. | 0. |
| 11/ 6 | 11. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 7 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 8 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 9 | 0. | 13. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/10 | 0. | 12. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/11 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/12 | 1. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/13 | 0. | 1. | 24. | 1. | 0. | 0. | 0. | 0. |
| 11/14 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/15 | 0. | 0. | 24. | 1. | 0. | 0. | 0. | 0. |
| 11/16 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/17 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/18 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/19 | 1. | 1. | 24. | 1. | 0. | 0. | 0. | 0. |
| 11/20 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/21 | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. |
| 11/22 | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. |
| 11/23 | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. |
| 11/24 | 0. | 0. | 0. | 12. | 0. | 0. | 0. | 2. |
| 11/25 | 11. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/26 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/27 | 0. | 0. | 0. | 11. | 0. | 0. | 0. | 1. |
| 11/28 | 0. | 0. | 24. | 11. | 0. | 0. | 0. | 1. |
| 11/29 | 13. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/30 | 0. | 0. | 24. | 0. | 0. | 0. | 1. | 0. |
| CALIBRATION TIME | | 2. | | 2. | 0. | 0. | 0. | 0. |

TABLE II.
DOWNTIME HOURS FOR C-B OIL SHALE TRACT MONITORING PROJECT

TRAILER #22

| DATE | COMPUTER | SO2 | PART | H2S | WS | WD | RH | TEMP |
|------------------|----------|-----|------|-----|----|----|----|------|
| 11/ 1 | 0. | 1. | 24. | 1. | 0. | 0. | 0. | 0. |
| 11/ 2 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 3 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 4 | 1. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 5 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 6 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 7 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/ 8 | 1. | 1. | 24. | 1. | 1. | 1. | 1. | 4. |
| 11/ 9 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/10 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/11 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/12 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/13 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/14 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/15 | 0. | 1. | 24. | 1. | 1. | 1. | 1. | 1. |
| 11/16 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/17 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/18 | 1. | 0. | 24. | 0. | 0. | 0. | 0. | 1. |
| 11/19 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/20 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/21 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/22 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/23 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. |
| 11/24 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/25 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/26 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/27 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/28 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/29 | 1. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/30 | 1. | 0. | 24. | 0. | 1. | 0. | 0. | 0. |
| CALIBRATION TIME | | 1. | | 1. | 0. | 0. | 0. | 0. |

TABLE II.
PUMP TIME HOURS FOR C-B OIL SHALE TRACT MONITORING PROJECT

TRAILER 223

| DATE | COMPUTER | NOX | NO | S02 | PART | H2S | THC | CH4 | CO | O3 | WS | WD | 8-FT | RH | TEMP | PYR |
|------------------|----------|-----|----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|----|------|-----|
| 11/1 | 1. | 0. | 0. | 0. | 0. | 0. | 24. | 24. | 7. | 17. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/2 | 1. | 0. | 0. | 1. | 24. | 0. | 16. | 16. | 16. | 0. | 23. | 23. | 0. | 0. | 0. | 0. |
| 11/3 | 1. | 0. | 0. | 0. | 24. | 0. | 1. | 1. | 0. | 1. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/4 | 1. | 1. | 1. | 1. | 24. | 1. | 9. | 9. | 1. | 9. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/5 | 0. | 1. | 1. | 0. | 24. | 0. | 24. | 24. | 0. | 24. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/6 | 1. | 0. | 0. | 1. | 24. | 0. | 15. | 15. | 1. | 15. | 23. | 23. | 0. | 0. | 0. | 0. |
| 11/7 | 0. | 0. | 0. | 1. | 24. | 0. | 1. | 1. | 1. | 2. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/8 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/9 | 1. | 0. | 0. | 0. | 24. | 0. | 10. | 10. | 0. | 10. | 23. | 23. | 0. | 0. | 0. | 0. |
| 11/10 | 0. | 1. | 1. | 24. | 24. | 0. | 20. | 20. | 20. | 20. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/11 | 0. | 7. | 7. | 24. | 24. | 2. | 8. | 8. | 23. | 23. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/12 | 1. | 2. | 2. | 23. | 24. | 0. | 18. | 16. | 23. | 23. | 23. | 23. | 1. | 1. | 1. | 1. |
| 11/13 | 0. | 1. | 1. | 23. | 24. | 20. | 24. | 24. | 24. | 23. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/14 | 7. | 0. | 0. | 14. | 24. | 14. | 24. | 24. | 15. | 22. | 24. | 24. | 0. | 0. | 0. | 0. |
| 11/15 | 1. | 0. | 0. | 0. | 24. | 0. | 12. | 12. | 12. | 0. | 11. | 11. | 0. | 0. | 0. | 0. |
| 11/16 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/17 | 0. | 2. | 2. | 0. | 24. | 0. | 1. | 1. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/18 | 0. | 1. | 1. | 2. | 24. | 1. | 19. | 19. | 3. | 6. | 2. | 2. | 0. | 0. | 0. | 0. |
| 11/19 | 2. | 0. | 0. | 1. | 24. | 1. | 13. | 13. | 10. | 12. | 1. | 1. | 0. | 0. | 0. | 0. |
| 11/20 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/21 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/22 | 5. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/23 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 9. | 9. | 0. | 0. | 0. | 0. |
| 11/24 | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 12. | 12. | 0. | 0. | 0. | 0. |
| 11/25 | 1. | 1. | 1. | 0. | 24. | 0. | 0. | 0. | 0. | 1. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/26 | 1. | 1. | 1. | 1. | 24. | 1. | 23. | 23. | 3. | 22. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/27 | 1. | 1. | 1. | 0. | 0. | 0. | 1. | 1. | 1. | 22. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/28 | 0. | 0. | 0. | 2. | 24. | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/29 | 0. | 0. | 0. | 1. | 0. | 0. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 1. | 1. |
| 11/30 | 7. | 0. | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 17. | 0. | 0. | 1. | 1. | 0. | 0. |
| CALIBRATION TIME | | 1. | 2. | 2. | | 2. | 2. | 2. | 2. | 2. | 0. | 0. | 0. | 0. | 0. | 0. |

TABLE II.
 DOWNTIME HOURS FOR C-B SHALE OIL PROJECT

TRAILER 023

DIGITIZING

| DATE | WS | WD | RH | TEMP | WS | WD | RH | TEMP | WS | WD | RH | TEMP | DT1 | DT2 |
|------------------|----|----|----|------|----|----|----|------|----|----|----|------|-----|-----|
| 11/ 1 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/ 2 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/ 3 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 6. | 0. |
| 11/ 4 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 3. | 0. |
| 11/ 5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/ 6 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/ 7 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/ 8 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/ 9 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/10 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/11 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/12 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/13 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/14 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/15 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/16 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/17 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/18 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/19 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/20 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/21 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/22 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/23 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/24 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/25 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/26 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/27 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/28 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/29 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 11/30 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| CALIBRATION TIME | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

TABLE II.
DOWNTIME HOURS FOR C-8 OIL SHALE TRACT MONITORING PROJECT

TRAILER #24

| DATE | COMPUTER | SO2 | PART | H2S | WS | WD | RH | TEMP |
|------------------|----------|-----|------|-----|-----|-----|----|------|
| 11/ 1 | 6. | 0. | 24. | 0. | 18. | 18. | 0. | 18. |
| 11/ 2 | 12. | 0. | 24. | 0. | 11. | 11. | 0. | 11. |
| 11/ 3 | 0. | 12. | 24. | 12. | 24. | 24. | 0. | 24. |
| 11/ 4 | 0. | 17. | 24. | 17. | 17. | 17. | 0. | 24. |
| 11/ 5 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/ 6 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/ 7 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/ 8 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/ 9 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/10 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/11 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/12 | 1. | 0. | 24. | 0. | 0. | 0. | 0. | 23. |
| 11/13 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/14 | 0. | 1. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/15 | 1. | 0. | 24. | 0. | 0. | 0. | 0. | 23. |
| 11/16 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/17 | 11. | 0. | 24. | 0. | 0. | 0. | 0. | 12. |
| 11/18 | 12. | 0. | 24. | 0. | 0. | 0. | 0. | 11. |
| 11/19 | 0. | 1. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/20 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/21 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/22 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/23 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/24 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/25 | 0. | 7. | 0. | 0. | 0. | 0. | 0. | 24. |
| 11/26 | 0. | 17. | 24. | 0. | 1. | 0. | 0. | 24. |
| 11/27 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 24. |
| 11/28 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| 11/29 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 24. |
| 11/30 | 0. | 0. | 24. | 0. | 0. | 0. | 0. | 24. |
| CALIBRATION TIME | | 0. | | 0. | 0. | 0. | 0. | 0. |

V. MONTHLY METEOROLOGICAL SUMMARYA. Summary of the Major Features of the
General Circulation over North America

During the month of November, the general circulation over the United States was fairly normal. That is, in general, the various sections of the country did not experience prolonged periods of abnormally extreme cold or heat. In addition, most sections of the nation did not deviate appreciably from monthly precipitation norms. The long wave circulation in the upper atmosphere generally alternated between periods of zonal and meridional flow during the month. Split flow dominated the upper flow from November 1st through November 6th. Otherwise, meridional or zonal flow regimes prevailed. Zonal flow, or west-to-east flow which promotes rapid variations of a rather weak nature in the meteorological conditions in a region, occurred in the United States from November 7th through the 9th, the 16th through the 23rd, and on November 30th. Meridional flow, or north-south flow which causes rather extreme meteorological conditions (hot or cold, depending on relative location in the circulation pattern) of a rather persistent nature, existed from November 10th through the 15th and from November 24th through the 29th.

The results of these circulation patterns over the various sections of the country during November were fairly uniform. In general, much of the nation had temperatures which were above normal for the month and monthly precipitation totals which were also slightly above normal. Specifically, the north central portion of the country, including the upper Midwest and Ohio Valley, had temperatures and monthly precipitation totals which were slightly above normal. The Northeast had near normal temperatures but below normal precipitation. The Atlantic seaboard region had temperatures and

precipitation totals which were slightly above normal for the month, while the South had near normal temperatures and slightly above normal precipitation. The central portion of the United States had above normal temperatures and slightly above normal precipitation during the month. Meanwhile, the Rocky Mountain region and Intermountain Region had slightly below normal temperatures and precipitation totals which were slightly above normal. The Southwest also had temperatures which averaged slightly below normal, but had above average precipitation. Finally, the West and Pacific coast areas had temperatures which were much higher than monthly normals and precipitation totals which were above normal.

No extremely cold Arctic air masses advected south of the Canadian border during the month. The mean position of the long wave trough over North America was through the west central United States during November, while a weak mean ridge was situated on a north-south line through the eastern portion of the nation.

November began with a broad upper troughing pattern over the western United States, with ridging over the Atlantic seaboard. The split flow conditions caused one large upper low pressure area over northeastern Wyoming and another over northern California. A stationary front extended from the Great Lakes to southern Texas and a cold front extended southward from a surface low over eastern Nevada. Precipitation was scattered throughout the western half of the nation and also along the stationary front from Texas to Indiana. Skies were overcast in western Colorado in the vicinity of Tract C-b on the 1st and rain and snow showers were widespread throughout the area.

November 2nd was much the same. The upper low in Wyoming moved northeastward to the North Dakota-Canada border and the upper low in the Southwest strengthened slightly and moved southward to southern California. A surface high pressure region began to build (anticyclogenesis) over the western portion of the nation. The stationary front through Texas moved northward as a warm front to a position along the Red River Valley, while the low over Nevada moved to southern Arizona. Precipitation was widespread across the western three-fourths of the nation. Cloudiness decreased somewhat in western Colorado, but scattered rainshowers still persisted in the region.

On November 3rd, the upper low in the Southwest moved to northwestern Arizona and filled slightly. Meanwhile, an upper ridge began to build into the Pacific Northwest. A stationary front extended from the Great Lakes to southwestern Texas. Precipitation, much of it heavy, covered the entire midsection of the country. High pressure continued to build into the western portion of the nation. Colder air advected into western Colorado, with rain, snow, and fog persisting throughout the area of the Tract C-b during the day.

The split flow regime continued on November 4th, as the upper ridge in the Northwest continued to strengthen. Weak upper lows were centered over western Kansas and western Utah. A cold front extended from New York to a low over Arkansas and then southwestward to southern Texas. Precipitation was heavy in a broad band from southern Texas northeastward to the Great Lakes, with many precipitation totals exceeding one inch. Western Colorado continued under a moderate high pressure regime at the surface, although a very weak surface low was centered over southeastern Utah. Middle cloudiness and a few light showers were scattered throughout the area of the Tract C-b.

The split flow pattern began to break somewhat by November 5th. A strong upper low was centered over Iowa and a very weak upper low was over southwestern Utah. An upper ridge extended from Oregon to Montana. A strong long wave trough began to deepen at about 150°W longitude. At the surface, a weak cold front extended southward from a low pressure center over the Great Lakes to Alabama and then into the Gulf of Mexico. An occluded front made its way onto the Washington coast. Precipitation was confined to the eastern third of the nation and to the Pacific Northwest. Weak high pressure at the surface covered the eastern two-thirds of the country. Skies cleared in western Colorado with only a few scattered middle clouds dotting the sky.

November 6th marked the end of the split flow regime over the western portion of the United States as zonal flow began to establish itself. Upper lows were centered over Illinois and the Arizona-Utah border, while an upper ridge extended from Nebraska to Minnesota. Precipitation occurred in Texas, along the Gulf Coast, in the Northeast, and in the Pacific Northwest. On the surface, the cold front moved off the Atlantic coast, while the occlusion in the Northwest remained essentially stationary. A weak surface high centered in Kansas dominated the circulation throughout the nation. Generally fair weather prevailed in western Colorado, with some scattered middle cloudiness in the area during the morning.

A zonal circulation prevailed on November 7th, with a strong upper low in the East and a weak upper cyclonic circulation centered in southern Colorado. A weak upper ridge extended northward from Mississippi to Wisconsin. A short wave moved onto the Pacific coast. A large weak anticyclone

was over eastern Missouri at the surface. A maritime polar cold front extended through Washington and a weak continental polar front dropped southward into Montana. Precipitation was widespread in the Pacific Northwest, Texas and its adjoining states, and in the Great Lakes region. Skies were clear in western Colorado, with a very small high pressure cell centered over central Colorado.

By November 8th, an upper level short wave had advanced rapidly eastward to an Idaho-southern California line. Upper lows were located over Missouri and off the Atlantic seaboard. A cold front extended southward from a low in Alberta, Canada, to Nevada. Precipitation was widespread throughout the Gulf coast states, Texas, and the Intermountain Region. The cold front passed through the Tract C-b region around noon. Cloudiness increased during the day and a steady rain began to fall during the evening.

The short wave moved eastward and dug southward on November 9th as the upper circulation began to exhibit some meridional flow characteristics. An upper ridge extended from southeast Texas to an upper high over the Great Lakes, while the upper trough was located on a Montana-Arizona axis. A cold front extended through the northern Plains states and another weak maritime polar cold front came onshore in Washington. Weak high pressure dominated the eastern half of the nation. Precipitation occurred in Florida, the Pacific Northwest, and over a large section of the nation's midsection extending from Texas to Minnesota and from eastern Utah to Missouri. Cloudiness covered western Colorado during most of the 9th and light rain fell during the morning hours.

The upper flow became meridional by November 10th, as the long wave trough dug southward along a Montana-west

Texas axis. Long wave ridges were located along the Pacific and Atlantic coasts of the United States. The cold front continued its eastern advance through the Midwest, extending along a Minnesota-Central Texas line during the morning. The cold front in the Northwest began to undergo frontolysis (decay) because of decreasing upper level support. A warm front moved northward from the Gulf of Mexico into southeastern Texas. Precipitation was scattered through the Pacific Northwest and the Intermountain Region. Precipitation was also concentrated along the cold front in a broad band from Texas to the western Great Lakes. In western Colorado, skies were overcast during the morning and some snow flurries occurred, but skies began to break by the afternoon as high pressure built into the area.

The meridional pattern amplified on the 11th, with a major trough through the center of the United States and strong upper ridges in the West and East. A strong cold front extended southward from a low over the western Great Lakes region through the Mississippi Valley to a low in southern Alabama, from which a cold front extended southward into the Gulf of Mexico. Precipitation extended northward along this front in a rather wide band. A large high pressure cell dominated the western half of the nation, bringing clear skies and light winds. Western Colorado likewise had clear skies and mild temperatures on this day.

This meridional pattern changed little on November 12th. The long wave trough and western ridge retained their amplitude and moved eastward slowly. High pressure continued to dominate the western two-thirds of the country and precipitation was confined to the Atlantic seaboard, Great Lakes, and Ohio Valley regions. However, a strong short wave began to dig southeastward through the upper ridge in British Columbia, portending a strong continental polar outbreak.

Skies were generally fair (high cloudiness) and temperatures were mild in the Tract C-b region.

The meridional long wave pattern amplified on the 13th as the short wave dug southeastward swiftly on the upstream side of the trough. Cold continental polar air streamed southward down the lee side of the Rockies behind a cold front extending from a low in Kansas to Colorado and then northwestward to Washington. Precipitation covered the northern portions of the country. The cold front passed through the Tract C-b region during the afternoon, lowering temperatures slightly. Skies remained fair.

The meridional pattern continued on November 14th, although the amplitude of the circulation was somewhat reduced. An upper ridge dominated the West while a major trough covered the eastern half of the nation with cloudiness and precipitation. The continental polar cold front continued its southward march, pushing into the Atlantic Ocean and Gulf of Mexico by nightfall. A weak maritime polar cold front moved into the Pacific Northwest. The moderate continental polar cold front retreated eastward out of the Tract C-b region during the day. Broken middle and high cloudiness advected over the area throughout the day. Temperatures were mild.

The meridional circulation pattern of the five preceding days began a transformation into a zonal flow on the 15th, as the ridge in the West flattened and the eastern trough began to lose amplitude. A weak cool front extended westward from a small low pressure center in Wyoming. High pressure covered most of the nation. Precipitation was confined to the Northeast. Middle and high cloudiness covered western Colorado as mild temperatures continued in that region.

Zonal flow re-established itself over the United States on November 16th. A short wave, located on a Minnesota-New Mexico axis during the morning, moved through the center of the nation, causing widespread precipitation throughout the western half of the country. High pressure and light winds covered most of the country. Mild, fair weather prevailed in the vicinity of Tract C-b.

Zonal flow continued on the 17th as numerous short waves progressed eastward across the country. Short waves were located in the Ohio Valley (a rather strong system), Texas, the northern Plains, and the Northwest. A weak continental polar cold front was in the northern Plains and a maritime polar cold front moved eastward onto the Washington coast on this day. Precipitation covered the eastern third of the nation as well as the Pacific Northwest.

The short waves continued their eastward progression on the 18th. The strongest of these waves was located in the Northwest. The weak continental polar cold front in the northern Plains remained fairly stationary, while the maritime polar cold front progressed eastward to a Montana-central California line. Precipitation was scattered through all areas of the country except the Southwest. Cloudiness increased throughout the day in western Colorado. The maritime polar cold front passed through the Tract C-b during the evening, bringing scattered showers and a few thundershowers to the region.

The upper flow became a bit more organized on the 19th, with a long wave trough through the center of the United States and minor ridges along the West and East coasts. The maritime polar cold front extended southward from Minnesota to Kansas and then curved into the Texas Panhandle and New

Mexico. High pressure began to build in the West behind the front. Precipitation occurred throughout the eastern half of the nation, in the Northwest, and in the Intermountain Region. After some snow pellets during the early morning in western Colorado, skies cleared gradually during the day, becoming virtually clear during the evening.

The short wave trough moved eastward to a Minnesota-Louisiana axis by November 20th as an upper ridge built northward over the Intermountain Region. On the surface, a cold front extended southward from a low over the Great Lakes region to Louisiana and then to the southern tip of Texas. A high pressure system, centered in western Colorado, affected the western half of the United States with its circulation. Precipitation amounts were large throughout the eastern third of the country. The Pacific Northwest also had precipitation. Skies were fair in western Colorado, but temperatures were rather cool.

The short wave troughs and ridges continued their eastward progression and by the 21st, short wave troughs were located off the Atlantic and Pacific coasts while a ridge extended northward from Texas to North Dakota. A cold front and low pressure system were located just off the coast of northern California. Precipitation was confined to the Northeast and the West. High pressure dominated most of the nation. The Tract C-b region had mostly fair skies on the 21st, with some scattered to broken middle and high cloudiness over the area.

The zonal upper flow pattern continued its eastward progression on the 22nd, as the Pacific short wave system advanced inland to an Idaho-southern California axis. The maritime polar cold front associated with this short wave

extended from southeastern Montana to southern California by the morning of the 22nd. Another cold front, a continental polar front, dipped into Montana and North Dakota from Canada. Precipitation covered the western third of the nation and the Northeast. Cloudiness increased throughout the day in western Colorado and the cold front passed the Tract C-b region late in the afternoon. A few scattered showers fell during the evening.

The upper flow began to change from zonal to meridional characteristics on the 23rd. A strong short wave trough dug southward over the Intermountain Region on this day while upper ridges built northward over the eastern and western portions of the nation. On the surface, a maritime polar front extended southward into Texas from a low in Kansas. In addition, a relatively strong continental polar cold front rushed southward through the central Plains states. High pressure dominated the East and the West. Precipitation fell in the Pacific Northwest, the Rockies, and throughout the central portion of the nation. Some snow and rain fell during the early morning in western Colorado, but skies cleared during the late morning hours and remained clear for the rest of the 23rd.

The upper circulation became meridional on the 24th as the troughs and ridges amplified rapidly. Long wave ridges were located along the Atlantic coast and in the western United States while long wave troughs dug southward through the central United States and near 140°W longitude. The maritime and continental polar cold fronts of the 23rd merged into one cold front which extended from the Great Lakes to southern Texas. A weak high pressure system dominated the western half of the country. Precipitation on this day was confined to the Pacific Northwest and along the length of the cold front.

Western Colorado enjoyed fair skies and cool temperatures because of the high pressure system centered in northwestern Colorado.

Meteorological systems moved rapidly on November 25th, as the long wave trough through the central United States moved eastward, as did the upstream ridge and trough. As a result, a strong short wave pushed eastward to a position from Washington to southern California by the morning of the 25th. The surface maritime polar cold front accompanying this short wave extended from Idaho to central California at this time and was moving eastward rapidly. High pressure dominated the central portion of the United States as precipitation was confined to the Atlantic seaboard, the Northwest, and the Pacific Northwest. Western Colorado remained fair throughout the day, with some high cloudiness advecting over the area during the morning. Skies were clear during the remainder of the day. The maritime polar cold front passed through the Tract C-b region during the evening of the 25th, lowering temperatures somewhat.

The eastward progression of the long wave systems continued on the 26th of November. Large amplitude troughs were located in New England and on an Alberta, Canada, to Texas axis, while sharp ridges extended from Missouri to Minnesota and northward into Canada and also long the Pacific coast, northward into British Columbia. A cold front extended southward from Canada into Minnesota and from there into Oklahoma, at which point it curved westward into New Mexico. High pressure cells dominated the Ohio and Mississippi Valley regions and also the western third of the country. Precipitation was scattered throughout the northern third of the nation. Clear skies and cool temperatures prevailed in the Tract C-b area.

Short waves and upper level lows moving eastward in the meridional long wave troughing pattern were the major meteorological forces on November 27th. Upper lows were centered just north of Maine, just north of Minnesota, and in southern Washington on the morning of the 27th. One cold front extended from the Great Lakes to Tennessee and southwestward into central Texas on this day while another maritime polar cold front extended from Oregon southwestward into northern California. A weak high pressure system dominated the Plains states and the Intermountain Region. Precipitation was confined to the Great Lakes region, New England, and the Pacific Northwest. High cloudiness increased throughout the day in western Colorado in advance of the approaching upper low and surface cold front. A middle overcast covered the Tract C-b area by evening; temperatures remained cool.

Rapid changes took place on November 28th. The upper low in Washington moved to a position over northern Utah and strengthened, while the other two upper lows over North America also strengthened but remained stationary. Meanwhile, the upper ridge over the Pacific Northwest amplified dramatically, which caused surface anticyclogenesis in southern Canada and the northwestern portion of the United States. The development of this large cold continental polar high cell caused a new frontal system to form from the Texas Panhandle westward to northern Arizona. Cold air streamed southward over the northwestern half of the United States. Precipitation, mainly in the form of snow, occurred in the Great Lakes region and in the central Rockies and Intermountain Region. Western Colorado was cloudy throughout the 28th, with intermittent snow showers. Rather cold air advected into the area during the day. Clearing took place in western Colorado during the evening.

The deep long wave trough and strong upper ridge progressed eastward during the 29th as a transition to zonal flow over the United States began. The upper trough extended from Minnesota to New Mexico while the upper ridge extended northward from California to Alberta, Canada. The upper low over Utah filled as the trough was propelled eastward. A cold front extended from Tennessee to Arkansas and then into southern Texas. A large cold high cell centered just north of North Dakota dominated the weather over the western two-thirds of the nation. Precipitation, much of it in the form of snow, occurred from the Rockies eastward to the Mississippi Valley and southward to the Gulf of Mexico, and snow flurries occurred in the lee of the Great Lakes. Skies were clear throughout the day in the Tract C-b region, but very cold air continued to affect the area.

By November 30th, the upper circulation had changed to a basically zonal pattern. An intense upper low was centered over northern Missouri with a strong upper ridge over the Intermountain Region. On the surface, a large, complex low system was beginning to organize over the Southeast while a strong ridge of high pressure extended from North Dakota to southern Texas. Cold continental polar air and high pressures dominated the western two-thirds of the United States. The eastern half of the United States was covered by cloudiness and precipitation. Snows occurred in the Rockies. Heavy snow fell in Missouri, Illinois, and Iowa. Skies were fair throughout the day in western Colorado but very cold air persisted in the Tract C-b region.

B. Summary of Meteorological Statistics in
Western Colorado during November

The area of western Colorado in the vicinity of the Tract C-b had below normal temperatures and above normal precipitation during the month of November. The area experienced five cold frontal passages during November (November 8, 13, 18, 22, and 25). In addition, the passage of an upper trough on November 28th brought extremely cold air into the region. Precipitation fell in the area on twelve separate days of November (November 1, 2, 3, 4, 8, 9, 10, 18, 19, 22, 23, and 28). Of these precipitation occurrences, five involved snowfall in the area of the Tract C-b (November 1, 3, 19, 23, and 28).

In general, the first twelve days of November had slightly below normal temperatures. From the 13th through the 26th, temperatures were generally near to slightly above normal. From the 28th through the 30th of November, the Tract C-b experienced temperatures well below normal.

The region experienced about 75 percent of the possible insolation during the month. Cloud cover (all types, but mostly high clouds) averaged 5.1 out of a possible 10 during the period from sunrise to sunset in the region and 4.5 out of a possible 10 for all 24-hour midnight to midnight periods during the month. The area experienced a total of twelve clear days, six partly cloudy days, and twelve cloudy days during November. Thunderstorms were scattered over the region on November 18th. Grand Junction, Colorado, about sixty miles to the south-southwest of the Tract C-b, measured 1.18 inches of precipitation during November, which is .57 inches above normal for the month.

The following is a summary of all official FKUS Air Stagnation Narratives issued by the National Weather Service during November which pertain to the Tract C-b region. These messages were received over the National Weather Service's "C" Service Teletype Circuit, to which Radian subscribes via a terminal in its Austin facilities.

- November 7th: "Gradual flattening of the upper ridge over the Southwest in conjunction with the surface high will result in localized marginal dispersion over sections of California, eastern Nevada, Utah, western Colorado, Arizona and New Mexico today..."
"Localized dispersion problems due to weak low level gradients through the interior Southwest will improve rapidly after the morning of November 8th..."
- November 13th: "The ridge over the Pacific Northwest is forecast to weaken and be forced southeast, spreading stagnation into the Great Basin and Idaho tonight...stagnation in the Great Basin will affect mainly night and morning dispersion conditions."
- November 14th: "A short wave moving into Colorado by Friday evening will cause weakening of the ridge in the West..."
- November 22nd: "In the wake of the upper trough moving out of the Rockies, computerized upper level progs show some ridging from California to Colorado by the morning

of the 24th. This, in conjunction with the surface high and its associated light low level winds, may result in some marginal dispersion conditions in the usually susceptible areas in sections of California, Nevada, Utah, and Colorado during the next 36 to 48 hours. Low mixing heights during the late night and early morning hours will also support this stagnation although transport winds will generally be above the required minimums..."

C. Discussion of the Meteorological
Conditions in the Monitoring
Network during November

Cold temperatures and periods of snowfall became rather common in the ambient air monitoring network in and around the Tract C-b during the month of November. Average temperatures in the network ranged from 26.7°F at Trailers 020 and 021 in the Piceance Creek Valley to 33.3°F at the 200-foot level of the meteorological tower at Trailer 023 on the Tract C-b itself. Winds during the month were moderate in force on the plateau around the meteorological tower and rather light in the Piceance Creek Valley, where katabatic and anabatic (downslope and upslope, respectively) circulation cells accounted for much of the wind. Monthly average relative humidities both on the plateau and in the valley ranged between 60 and 70 percent. Vector wind directions were southeasterly in the Piceance Creek Valley where the flow is constrained by the valley walls and south-southwesterly on the plateau, where synoptic-scale pressure gradient forces normally control the direction and speed of the wind.

The katabatic circulation cell continued to exert a large influence on the meteorology of the Piceance Creek Valley during November, although the anabatic, or upslope, circulation cell which normally develops during the daylight hours was almost non-existent during the month. The katabatic flow was normally strongest, about 10 miles per hour sustained winds, at Trailer 022 at the eastern end of the monitoring network in the valley. The strongest drainage winds at this station normally occurred from 0100 to 0500 hours in the morning. When northwesterly gradient winds extended down into the valley, they were normally strongest at Trailer 021, at the western end of the valley monitoring network.

Vector resultant winds for the valley stations during the month were: 1.4 miles per hour from 138.6° at Trailer 020, 1.3 miles per hour from 123.2° at Trailer 021 and 3.2 miles per hour from 108.9° at Trailer 022. The highest five-minute average winds recorded during the month in the valley were 19 miles per hour at Trailer 020 on the 18th, 23 miles per hour at Trailer 021 on the 28th, and 18 miles per hour at Trailer 022 on the 27th. The highest daily average winds occurred on November 28th.

Relative humidities were rather uniform in the Piceance Creek Valley during the month. The monthly average relative humidities ranged from 69.9% at Trailer 022 to 62.6% at Trailer 021. Trailer 020 was intermediate with a 66% average relative humidity. The highest daily average relative humidities during the month occurred on November 21st.

Nighttime temperatures once again were coldest at Trailer 021 during November, due to the light winds, dry air, and strong radiational cooling which normally prevailed at this site. The other valley sites also experienced strong radiational cooling conditions, but not to the extent that they developed at Trailer 021. On a clear night with light winds, the air at Trailer 021 was normally 5 degrees colder during the early morning hours than it was at Trailer 020, 10 degrees colder than the air at Trailer 022, and 15 degrees or more colder than the air on the plateau near the meteorological tower. It can therefore be said that nighttime temperatures on clear nights generally increased as one progressed eastward up the Piceance Creek Valley. However, on nights when winds were strong, skies were cloudy, and precipitation fell, the strong radiational cooling did not develop and temperatures were rather uniform throughout the monitoring network, from the valley to the plateau.

Monthly average temperatures in the valley ranged from 26.7° at both Trailers 020 and 021 to 28.9° at Trailer 022. The highest daily average temperatures in the valley during the month occurred on November 22nd, while the lowest daily average temperatures were experienced on November 29th. The highest five-minute maximum temperature in the valley during November was 54°F at Trailer 022 on November 21st. Daytime maximum temperatures in the valley were generally highest at Trailer 022. The lowest temperatures recorded in the valley were -17°F and -16°F , both occurring at Trailer 021, on November 29th and 30th, respectively.

On the plateau, meteorological conditions were often somewhat different from those in the Piceance Creek Valley. The diurnal variations in temperature and wind direction which were so prominent in the valley were not of as much importance on the plateau. The diurnal range of temperatures was much smaller within the Tract C-b itself because of three factors: (1) the plateau was not affected by the katabatic circulation cell to the extent that it affected the valley, (2) radiational cooling conditions were not as strongly developed on the plateau as they were in the valley, and (3) thermally induced vertical mixing of the air during clear or partly cloudy days resulted in rather uniform afternoon temperatures throughout the monitoring network. The fifteen degree differences in temperature which existed during the night were not present during the day. During cloudy, windy, or wet conditions, however, the temperatures were approximately the same at any given time, whether it was a meteorological tower level or a site in the valley.

Winds were generally much stronger on the plateau than they were in the valley. This can be attributed to the fact that the synoptic-scale pressure gradient force winds which affect the plateau seldom extend into the valley because of the terrain constraints. The tower site, in particular, is often

affected by very strong winds which are affected only minimally by the terrain and its frictional dissipation forces.

The meteorological tower continued to monitor some remarkable meteorological effects during November. On days with light winds and little, if any, pressure gradient forces, the winds varied considerably in direction with height and the winds were normally strongest at the 100-foot level. On days with strong south-southwesterly winds, the winds increased in speed by about 25% from the 30-foot level to the 200-foot level and generally veered in direction (progression in a clockwise direction) by about 10 degrees from 30-feet to 200-feet. When strong northerly winds prevailed, about a 20% increase in speed from 30-feet to 200-feet occurred and the winds generally backed in direction (counter-clockwise) with increasing height. However, these phenomena are consistent with meteorological rules.

When windy, cloudy, or rain/snow conditions existed, temperatures generally varied little with height at the meteorological tower, a situation which is to be expected because of the neutral stability conditions which prevail under such conditions. However, on clear days or nights when winds were fairly light, the lowest 100 feet of the surface boundary layer on the plateau were often decoupled from the atmosphere above it. That is, the ground-based radiation inversion generated during the night often was confined to the lowest 100 feet, with the temperature decreasing with height above that level. Conversely, during the daytime hours on sunny days, the temperature normally decreased with height up to the 100-foot level. Above that height, however, an inversion layer sometimes existed. On such occasions, therefore, the mixing depth over the meteorological tower site was only 100 feet. This elevated inversion situation was not a common occurrence,

but occurred often enough during November to merit some mention.

The average vector resultant wind speed increased with height at the meteorological tower. The resultant speed was 3 miles per hour at 30-feet, 3.4 miles per hour at 100-feet, and 4 miles per hour at 200-feet. The vector resultant wind directions were 202.4 degrees at 30-feet, 189.9 degrees at 100-feet, and 214.0 degrees at 200-feet. For purposes of comparison, Trailer 024, about 1 mile north of the meteorological tower site, had a vector resultant wind direction of 145.5 degrees and a resultant speed of 1.1 miles per hour.

The highest daily average wind speeds on the plateau, up to 18.6 miles per hour at the 200-foot level, were recorded on November 18th, while the lowest daily average wind speeds on the plateau occurred on November 9th. The highest five-minute average wind speeds at the meteorological tower occurred on November 25th.

The monthly average temperatures at the tower site increased with height, ranging from 31.8°F at 8 feet (partially because of radiational cooling effects) to 33.3°F at 200 feet. The 30-foot level averaged 32.4°F and the 100-foot level averaged 33.1°F. The highest daily average temperatures during the month, 41.2°F to 42.6°F, occurred on November 21st. The coldest daily average temperatures on the plateau were recorded on November 29th, with the daily averages ranging from 13.6°F to 15.3°F. The highest five-minute average temperature recorded at the tower site during the month was 53°F at the 8-foot level on the 21st. The lowest temperature recorded on the plateau was 3°F, at both the 8- and 200-foot levels on the 29th.

Relative humidities were fairly uniform over the plateau during the month, averaging in the low 60's at all four tower levels and at Trailer 024. November 3rd and 9th were the most humid days of the month on the plateau, while the 21st was the driest.

Solar radiation measurements showed a direct correlation with cloud cover, atmospheric moisture, turbidity of the air, and solar elevation during November. The highest hourly totals of solar radiation received at the meteorological tower during the month were 49.20 langley's from 1100 to 1200 hours on November 29th and 48.50 langley's from 1000 to 1100 hours on November 5th.

VI. DATA PRESENTATION AND SUMMARY

This section includes summaries for various recorded data at the monitoring sites. The data presentations indicate the variability of pollutant concentrations and meteorological parameters with location and time. In addition, the presentations indicate the functional dependence of pollutant concentration with wind direction. All data except suspended particulates (24-hour samples) are sampled once each second, but recorded as five-minute arithmetic averages of the one-second samples. This averaging technique tends to smooth instantaneous maximum values, and is especially evident when comparing wind gusts to local weather bureau data.

Inherent to any data acquisition system is random noise both from the recording instruments and quantization in the analog-to-digital conversion. The lower threshold for all analytical instruments is twice the maximum noise level generated by the instruments. This lower threshold is 5 ppb for all instruments, except for the ozone analyzer for which it is 0.5 ppb. Therefore, any values appearing in the data presentations that are less than 5 ppb indicate only a trace of pollutant in question and should not be construed to be absolute levels. In addition, when concentration levels drop below the lower threshold, the recorded quantity is simply random noise and averages tend toward zero. Thus, when concentrations are below the lower threshold of the analytical instruments they may appear as a zero entry in the data presentation which does not indicate absolute zero concentration.

All pollutant data (except for particulate data is taken at the monitoring site in integer parts per billion (ppb) but is presented here in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

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assuming standard temperature and pressure of 25°C and 760 mmHg (1013.2 millibars), respectively. The scale factors required to convert $\mu\text{g}/\text{m}^3$ at standard conditions back to ppb for the various pollutants are given in the following table.

| POLLUTANT | TO CONVERT $\mu\text{g}/\text{m}^3$ AT 25°C
AND 760 mmHg TO ppb MULTIPLY BY |
|----------------------|--|
| NO_x | .534 |
| NO | .534 |
| NO_2 | .534 |
| SO_2 | .384 |
| H_2S | .723 |
| THC | 1.536 |
| CH_4 | 1.536 |
| CO | .877 |
| O_3 | .512 |

The units of the meteorological parameters are given in the table. It should be noted here that inside temperature is monitored and recorded as a functional part of the system but is not presented in this report.

Table III displays the monthly statistics for each monitoring station for the month. To insure statistical significance, and to reduce the possibility of introducing a bias in the presentation, averages are computed only when at least 50 percent of the samples are present, except for relative humidity and temperature, in which case 75 percent of the samples are required. If less than the required samples are present for a particular parameter, that entry will be blank. The number of

samples present for a particular channel is defined as the total possible number of five-minute samples for the averaging time less the computer downtime less the channel downtime less the channel calibration time. The averages in Table III are arithmetic averages with the following exceptions:

- Wind speed and wind direction are computed using a vector averaging technique where the wind speed is treated as the vector magnitude.
- Particulate averages are computed as the geometric mean.

Table IV displays the daily averages. Again, 50 percent of the five-minute samples are required in order to compute an average except for the cases of relative humidity and temperature which require 75 percent. A blank entry indicates an insufficient number of five-minute samples present for that day. Wind speed, wind direction, and particulate averages are computed the same way as described in Table III.

Table V presents the maximum daily five-minute average retained in the data base as well as the time of occurrence. A five-minute maximum average is printed if any samples are present for that day. Therefore, the maximum five-minute average for a channel which experienced considerable downtime or calibration time during the day in question may be misrepresentative of the maximum expected for that channel on that day.

Table VI indicates the five largest averages for various averaging times. The table shows the period of time covered by the average. Maxima are chosen so that time segments

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are independent. The maximum averages reported are found using a 'sliding average' technique with the exception of the 24-hour particulate average which is computed from midnight to midnight and the 3-hour hydrocarbon average which is computed from 6:00 to 9:00 a.m. only. For averaging times less than or equal to three hours, the sliding average is stepped one five-minute sample at a time. For longer averaging times the step size is twelve samples or one hour. For averaging times less than or equal to one hour 100 percent of the five-minute samples must be present to compute an average. Averaging times greater than one hour require 90 percent. Whether or not a sliding average is computed is solely determined by the number of samples present in that averaging time and is independent of daily and monthly averaging criteria.

To demonstrate the functional dependence of recorded parameters upon wind direction, Table VII shows pollutant concentration displayed in a bi-variate distribution with wind direction. The tables display the total number of five-minute samples occurring in each concentration and wind speed class. The mean concentration for all samples occurring in each wind class are also shown. This distribution demonstrates the dependence of high pollutant concentrations upon wind direction. Appendix A contains stability-wind rose diagrams.

The wind speed classifications used in Appendix A are based on the Beaufort wind scale classification system. This is a system of estimating and reporting wind speeds, invented in the early nineteenth century by Admiral Beaufort of the British Navy. It was originally based on the effects of various wind speeds on the amount of canvas that a full-rigged frigate of the period could carry, but has since been modified and modernized. In its present form for international meteorological use it equates: (a) Beaufort force (or Beaufort number); (b) wind speed;

(c) descriptive term; and (d) visible effects upon land objects or the sea surface. One land adaptation is the NRM wind scale.

The six basic wind speed classifications used in the report are: 1-3 knots, 4-6 knots, 7-10 knots, 11-16 knots, 17-21 knots, and winds of greater than 21 knots. The following table is a complete description of the Beaufort Wind Scale, taken from Physical Climatology, by Helmut Landsberg, 1969.

BEAUFORT WIND SCALE FOR OBSERVATIONS AT LAND STATIONS

| Force | Explanatory Title | Specification for Use | Corresponding Limits of Wind Speed at 10 meters ab. grd. | | | | |
|-------|--------------------|---|--|---------|---------|-----------|---------|
| | | | Mi/hr. | Knots | Km/hr. | M/sec. | Ft/sec. |
| 0 | Calm..... | Smoke rises vertically..... | <1 | <1 | <1 | 0.3 | 1 |
| 1 | Light air..... | Direction of wind shown by smoke drift, but not by wind vanes..... | 1-3 | 1-3 | 1-5 | 0.3-1.5 | 1-5 |
| 2 | Light breeze..... | Wind felt on face; leaves rustle; ordinary vane moved by wind..... | 4-7 | 4-6 | 6-11 | 1.6-3.3 | 6-11 |
| 3 | Gentle breeze..... | Leaves and small twigs in constant motion; wind extends light flag..... | 8-12 | 7-10 | 12-19 | 3.4-5.4 | 12-18 |
| 4 | Moderate breeze.. | Raises dust and loose paper; small branches are moved..... | 13-18 | 11-16 | 20-28 | 5.5-7.9 | 19-26 |
| 5 | Fresh breeze..... | Small trees in leaf begin to sway; wavelets formed on inland waters..... | 19-24 | 17-21 | 29-38 | 8.0-10.7 | 27-35 |
| 6 | Strong breeze..... | Large branches in motion; whistling heard in telegraph wires; umbrellas used with difficulty..... | 25-31 | 22-27 | 39-49 | 10.8-13.8 | 36-45 |
| 7 | High wind..... | Whole trees in motion; inconvenience felt when walking against wind..... | 32-38 | 28-33 | 50-61 | 13.9-17.1 | 46-56 |
| 8 | Fresh gale..... | Breaks twigs off trees; generally impedes progress..... | 39-46 | 34-40 | 62-74 | 17.2-20.7 | 57-68 |
| 9 | Strong gale..... | Slight structural damage occurs (chimney pots and slates removed)..... | 47-54 | 41-47 | 75-88 | 20.8-24.4 | 69-80 |
| 10 | Whole gale..... | Seldom experienced inland; trees uprooted; considerable structural damage occurs.. | 55-63 | 48-55 | 89-102 | 24.5-28.4 | 81-93 |
| 11 | Storm..... | Very rarely experienced; accompanied by widespread damage..... | 64-72 | 56-63 | 103-117 | 28.5-32.6 | 94-106 |
| 12 | Hurricane..... | ..... | 73-82 | 64-71 | 118-133 | 32.7-36.9 | 107-121 |
| 13 | ..... | ..... | 83-92 | 72-80 | 134-149 | 37.0-41.4 | 122-136 |
| 14 | ..... | ..... | 93-102 | 81-89 | 150-166 | 41.5-46.1 | 137-151 |
| 15 | ..... | ..... | 101-114 | 90-99 | 167-183 | 46.2-50.9 | 152-166 |
| 16 | ..... | ..... | 115-125 | 100-108 | 181-201 | 51.0-56.0 | 167-183 |
| 17 | ..... | ..... | 126-136 | 109-118 | 202-220 | 56.1-61.2 | 184-201 |

Source: Table 36 (p. 119) in R. J. List (1951); Smithsonian Meteorological Tables; Smithsonian Miscell. Coll. Vol. 114.

Table VIII demonstrates the diurnal variation of various recorded parameters. Hourly averages are determined by arithmetically averaging five-minute samples, except for wind direction magnitudes. Totals in the diurnal wind direction tables are vector averages of the columns and rows. For all parameters, a blank entry in the diurnal variation table indicates that less than half (i.e., less than 6) of the five-minute samples for that hour are present.

It should be noted that the hydrocarbon levels presented do not represent ambient concentrations. The values are influenced by a contamination of the sampling cane. The hydrocarbon levels were significantly reduced after carefully cleaning the sampling cane apparatus.

Times given in the data presentation are Mountain Standard Time.

To facilitate comparison of recorded concentrations to ambient air quality standards, the following regulations are presented.

FEDERAL AND COLORADO STANDARDS

| | Primary | Secondary | Non-Designated Area | | Designated Area | |
|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | | 1973 | 1976 | 1980 | |
| <u>Particulate</u> | | | | | | |
| Annual G. M. | 75 $\mu\text{g}/\text{m}^3$ | 60 $\mu\text{g}/\text{m}^3$ | 45 $\mu\text{g}/\text{m}^3$ | 70 $\mu\text{g}/\text{m}^3$ | 55 $\mu\text{g}/\text{m}^3$ | 45 $\mu\text{g}/\text{m}^3$ |
| 24 Hr. Max.* | 260 | 150 | 150 | 200 | 180 | 150 |
| <u>Sulfur Oxides</u> | | | | | | |
| Annual | 80(.03ppm) | | -- | 60(.02ppm) | 25(.009ppm) | 10(.004ppm) |
| 24 Hr. Max.* | 365(.14ppm) | | 15(.005ppm) | 300(.1ppm) | 150(.05ppm) | 55(.02ppm) |
| 3 Hr. Max.* | -- | 1300(.5ppm) | -- | -- | -- | -- |
| 1 Hr. Max.** | -- | -- | -- | 800(.28ppm) | 300(.1ppm) | -- |
| <u>Oxidant</u> | | | | | | |
| 1 Hr. Max.* | 160(.08ppm) | 160 | | | | |
| 8 Hr. Max.* | -- | -- | | | | |
| Annual | -- | -- | | | | |
| <u>Hydrocarbons</u> | | | | | | |
| 3 Hr. Max.* | 160(.24ppm) | 160 | | | | |
| 6-9 a.m. | | | | | | |
| <u>Carbon Monoxide</u> | | | | | | |
| Max. 8 Hrs.* | 10000(9ppm) | 10000 | | | | |
| Max. 1 Hr.* | 40000(35ppm) | 40000 | | | | |
| <u>Nitrogen Dioxide</u> | | | | | | |
| Annual | 100(.05ppm) | 100 | | | | |

Units are micrograms per cubic meter and ppm in parenthesis.
 *Not to be exceeded more than once per year.
 **Not to be exceeded more than once per month.

(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;

TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

NITROGEN OXIDES(NOx)

NITRIC OXIDE(NO)

NITROGEN DIOXIDE(NO2)

| SITE | 020 | 023 | 020 | 023 | 020 | 023 |
|------|-----|-----|-----|-----|-----|-----|
| | 4.7 | 6.7 | 1.9 | 4.4 | 2.8 | 2.4 |

TOTAL HYDROCARBONS

METHANE

NON-METHANE HYDROCARBONS

| SITE | 020 | 023 | 020 | 023 | 020 | 023 |
|------|-------|--------|-------|-------|------|-------|
| | 691.3 | 1254.6 | 826.1 | 149.7 | 73.4 | 933.0 |

CARBON MONOXIDE

OZONE

BAROMETRIC PRESSURE

| SITE | 020 | 023 | 020 | 023 | 020 | 023 |
|------|-------|--------|------|-----|-----|-----|
| | 553.8 | 3783.0 | 58.0 | | | |

SULFUR DIOXIDE(SO2)

PARTICULATE

| SITE | 020 | 021 | 022 | 023 | 024 | 020 | 021 | 022 | 023 | 024 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1.4 | 1.3 | 2.6 | 0.0 | 0.2 | | | | | |

HYDROGEN SULFIDE

TOTAL PRECIPITATION
(INCHES)

| SITE | 020 | 021 | 022 | 023 | 024 | 020 | 021 | 022 | 023 | 024 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1.0 | 1.6 | 0.2 | 0.0 | 0.0 | | | | | |

RELATIVE HUMIDITY

TEMPERATURE OUTSIDE

| SITE | 020 | 021 | 022 | 024 | 020 | 021 | 022 | 024 |
|------|------|------|------|------|------|------|------|-----|
| | 66.0 | 62.6 | 69.9 | 61.6 | 26.7 | 26.7 | 28.9 | |

WIND SPEED

WIND DIRECTION

| SITE | 020 | 021 | 022 | 024 | 020 | 021 | 022 | 024 |
|------|-----|-----|-----|-----|-------|-------|-------|-------|
| | 1.4 | 1.3 | 3.2 | 1.1 | 138.6 | 123.2 | 148.9 | 145.5 |

CONCENTRATION

TABLE III. AVERAGES FOR NOV 1 THRU 30

(1) FTS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;

TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE | WIND SPEED | | |
|------|---------------|----------------|-----------------|
| | (8-FT)
023 | (30-FT)
023 | (100-FT)
023 |
| | | 3.0 | 3.4 |
| | | | (200-FT)
023 |
| | | | 4.0 |

| SITE | WIND DIRECTION | | |
|------|----------------|----------------|-----------------|
| | (8-FT)
023 | (30-FT)
023 | (100-FT)
023 |
| | | 202.4 | 189.9 |
| | | | (200-FT)
023 |
| | | | 214.0 |

| SITE | RELATIVE HUMIDITY | | |
|------|-------------------|----------------|-----------------|
| | (8-FT)
023 | (30-FT)
023 | (100-FT)
023 |
| | 63.5 | 62.8 | 61.4 |
| | | | (200-FT)
023 |
| | | | 63.1 |

| SITE | TEMPERATURE OUTSIDE | | |
|------|---------------------|----------------|-----------------|
| | (8-FT)
023 | (30-FT)
023 | (100-FT)
023 |
| | 31.8 | 32.4 | 33.1 |
| | | | (200-FT)
023 |
| | | | 33.3 |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE | NITROGEN OXIDES(NOx) | | | NITRIC OXIDE(NO) | | | NITROGEN DIOXIDE(NO2) | | |
|-------|----------------------|------|-----|------------------|------|-----|-----------------------|------|------|
| | DATE | NO2 | NO3 | NO2 | NO3 | NO2 | NO2 | NO2 | NO2 |
| 11/ 1 | 7.4 | 0.3 | | 5.3 | 0.2 | | 2.1 | 0.1 | 0.1 |
| 11/ 2 | 1.0 | 0.4 | | 0.2 | 0.4 | | 0.7 | 0.0 | 0.0 |
| 11/ 3 | 0.0 | 0.2 | | 0.2 | 0.0 | | 0.4 | 0.0 | 0.0 |
| 11/ 4 | 1.4 | 0.0 | | 0.3 | 0.0 | | 0.5 | 0.0 | 0.0 |
| 11/ 5 | 4.2 | 0.0 | | 0.4 | 0.0 | | 4.0 | 0.5 | 0.5 |
| 11/ 6 | 0.0 | 0.0 | | 2.0 | 0.0 | | 3.2 | 0.9 | 0.9 |
| 11/ 7 | 1.0 | 0.0 | | 0.0 | 0.0 | | 1.5 | 0.0 | 0.0 |
| 11/ 8 | 2.3 | 0.0 | | 0.0 | 0.0 | | 2.3 | 0.0 | 0.0 |
| 11/ 9 | 0.4 | 0.0 | | 0.0 | 0.0 | | 0.4 | 0.0 | 0.0 |
| 11/11 | 20.3 | 10.0 | | 20.0 | 10.0 | | 2.3 | 0.0 | 0.0 |
| 11/11 | 10.4 | 10.7 | | 11.9 | 10.7 | | 3.5 | 0.0 | 0.0 |
| 11/12 | 0.0 | 0.0 | | 0.0 | 22.0 | | 0.0 | 0.1 | 0.1 |
| 11/13 | 0.1 | 0.0 | | 0.0 | 3.2 | | 0.1 | 0.2 | 0.2 |
| 11/14 | 0.0 | 0.0 | | 0.0 | 2.0 | | 0.0 | 2.7 | 2.7 |
| 11/15 | 2.0 | 2.8 | | 0.0 | 1.7 | | 2.3 | 1.1 | 1.1 |
| 11/16 | 0.0 | 0.0 | | 0.0 | 0.6 | | 0.0 | 0.0 | 0.0 |
| 11/17 | 0.2 | 1.0 | | 0.0 | 1.0 | | 0.2 | 0.0 | 0.0 |
| 11/18 | 0.2 | 2.7 | | 0.0 | 0.7 | | 0.2 | 2.0 | 2.0 |
| 11/19 | | | | | | | | | |
| 11/20 | 4.0 | 1.0 | | 0.0 | 0.4 | | 4.6 | 1.5 | 1.5 |
| 11/21 | 1.0 | 1.0 | | 0.0 | 0.3 | | 1.2 | 1.5 | 1.5 |
| 11/22 | 2.0 | 0.0 | | 0.0 | 0.9 | | 2.3 | 1.9 | 1.9 |
| 11/23 | 0.0 | 0.0 | | 1.0 | 2.7 | | 1.0 | 3.1 | 3.1 |
| 11/24 | 0.0 | 0.7 | | 2.0 | 1.0 | | 1.0 | 3.9 | 3.9 |
| 11/25 | 0.4 | 0.0 | | 1.5 | 2.8 | | 1.8 | 3.7 | 3.7 |
| 11/26 | 12.4 | 10.4 | | 3.7 | 6.7 | | 8.6 | 3.7 | 3.7 |
| 11/27 | 10.0 | 10.0 | | 0.3 | 5.8 | | 11.7 | 10.2 | 10.2 |
| 11/28 | 0.0 | 31.0 | | 0.0 | 20.1 | | 5.0 | 11.4 | 11.4 |
| 11/29 | 7.0 | 30.1 | | 0.3 | 19.0 | | 7.0 | 10.2 | 10.2 |
| 11/30 | 0.0 | 20.4 | | 0.0 | 14.0 | | 6.8 | 10.6 | 10.6 |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

SULFUR DIOXIDE(SO2)

PARTICULATE

| SITE | 020 | 021 | 022 | 023 | 024 | 020 | 021 | 022 | 023 | 024 |
|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
| 1/1 | 0.2 | 3.8 | 0.0 | 0.0 | 1.0 | | | | | |
| 1/2 | 0.0 | 0.1 | 0.0 | 0.0 | | | 9.0 | | 7.0 | |
| 1/3 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| 1/4 | 0.0 | 0.2 | 4.0 | 0.0 | | | | | | |
| 1/5 | 0.0 | | 7.0 | 0.0 | 0.0 | | | | | |
| 1/6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/7 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | | | | | |
| 1/8 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | | | | | |
| 1/9 | 0.0 | | 7.7 | 0.0 | 0.0 | | | | | |
| 1/10 | | 0.0 | 0.7 | | 0.0 | | | | | |
| 1/11 | 0.0 | 0.0 | 0.0 | | 0.0 | | | | | |
| 1/12 | 0.0 | 0.0 | 7.5 | | 0.0 | | | | | |
| 1/13 | 0.0 | 0.0 | 5.7 | | 0.0 | | | | | |
| 1/14 | 0.0 | 0.0 | 3.4 | | 0.0 | | | | | |
| 1/15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/16 | 0.0 | 0.0 | 0.7 | 0.0 | 0.1 | | | | | |
| 1/17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/19 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | | | | | |
| 1/20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 71.0 | | | | |
| 1/22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.0 | | | | |
| 1/23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | | | | |
| 1/24 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 6.0 | | | | |
| 1/25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.0 | | | | |
| 1/26 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/27 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 | | | | |
| 1/28 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/29 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/31 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 1/1 | | | | | | | | | | |
| 1/2 | | | | | | | | | | |
| 1/3 | | | | | | | | | | |
| 1/4 | | | | | | | | | | |
| 1/5 | | | | | | | | | | |
| 1/6 | | | | | | | | | | |
| 1/7 | | | | | | | | | | |
| 1/8 | | | | | | | | | | |
| 1/9 | | | | | | | | | | |
| 1/10 | | | | | | | | | | |
| 1/11 | | | | | | | | | | |
| 1/12 | | | | | | | | | | |
| 1/13 | | | | | | | | | | |
| 1/14 | | | | | | | | | | |
| 1/15 | | | | | | | | | | |
| 1/16 | | | | | | | | | | |
| 1/17 | | | | | | | | | | |
| 1/18 | | | | | | | | | | |
| 1/19 | | | | | | | | | | |
| 1/20 | | | | | | | | | | |
| 1/21 | | | | | | | | | | |
| 1/22 | | | | | | | | | | |
| 1/23 | | | | | | | | | | |
| 1/24 | | | | | | | | | | |
| 1/25 | | | | | | | | | | |
| 1/26 | | | | | | | | | | |
| 1/27 | | | | | | | | | | |
| 1/28 | | | | | | | | | | |
| 1/29 | | | | | | | | | | |
| 1/30 | | | | | | | | | | |
| 1/31 | | | | | | | | | | |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30

(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| DATE | TOTAL HYDROCARBONS | | | METHANE | | | NON-METHANE HYDROCARBONS | | |
|-------|--------------------|---------|-------|---------|---------|-----|--------------------------|-----|---------|
| | 020 | 023 | 020 | 020 | 023 | 020 | 020 | 023 | 023 |
| 11/ 1 | | | | | | | | | |
| 11/ 2 | | | | | | | | | |
| 11/ 3 | | 1155.1 | | | 850.8 | | | | 19704.2 |
| 11/ 4 | | 11635.3 | | | 861.0 | | | | 10604.3 |
| 11/ 5 | | | | | | | | | |
| 11/ 6 | | | | | | | | | |
| 11/ 7 | 937.9 | 9144.7 | 808.6 | | 953.5 | | 129.3 | | 8241.2 |
| 11/ 8 | 917.3 | 9025.1 | 841.4 | | 944.1 | | 75.9 | | 8663.9 |
| 11/ 9 | 924.0 | 8414.3 | 859.6 | | 953.1 | | 62.3 | | 8451.2 |
| 11/10 | | | | | | | | | |
| 11/11 | | 14587.6 | | | 14534.2 | | | | 53.4 |
| 11/12 | | | | | | | | | |
| 11/13 | | | | | | | | | |
| 11/14 | | | | | | | | | |
| 11/15 | 937.4 | | 876.9 | | | | 54.0 | | 9427.9 |
| 11/16 | 912.5 | 10259.4 | 857.5 | | 831.5 | | 44.9 | | 8485.7 |
| 11/17 | 868.5 | 9330.5 | 824.9 | | 844.9 | | 43.6 | | |
| 11/18 | 853.4 | | 810.5 | | | | 47.9 | | |
| 11/19 | | | | | | | | | |
| 11/20 | 882.5 | 8485.7 | 857.9 | | 842.6 | | 30.6 | | 7613.1 |
| 11/21 | 865.1 | 10329.6 | 843.0 | | 798.7 | | 20.1 | | 10026.6 |
| 11/22 | 868.5 | 16866.0 | 840.0 | | 684.1 | | 26.5 | | 16181.4 |
| 11/23 | 919.8 | 14656.2 | 855.4 | | 724.9 | | 51.5 | | 17941.3 |
| 11/24 | 986.6 | 17191.0 | 850.0 | | 711.1 | | 188.8 | | 16409.9 |
| 11/25 | 1007.4 | | 828.7 | | | | 177.1 | | |
| 11/26 | 1022.0 | 8301.5 | 857.1 | | 532.8 | | 155.5 | | 7768.7 |
| 11/27 | 944.4 | 6075.7 | 851.2 | | 852.5 | | 89.2 | | 5614.2 |
| 11/28 | 891.3 | 7082.6 | 837.6 | | 923.7 | | 53.5 | | 6759.1 |
| 11/29 | 764.0 | 7524.9 | 748.5 | | | | 16.1 | | |
| 11/30 | 537.9 | 6839.3 | 637.9 | | 879.1 | | 0.0 | | 5960.2 |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE | | CARBON MONOXIDE | | OZONE | | BAROMETRIC PRESSURE | |
|-------|-------|-----------------|------|-------|------|---------------------|-----|
| DATE | 020 | 023 | 020 | 023 | 020 | 023 | |
| 11/ 1 | | 2787.9 | 52.0 | | | | 023 |
| 11/ 2 | | | 65.9 | | 14.2 | | |
| 11/ 3 | | 1104.3 | 51.1 | | 10.0 | | |
| 11/ 4 | | 1245.5 | | | 17.2 | | |
| 11/ 5 | | 3122.0 | | | | | |
| 11/ 6 | 662.7 | 3222.9 | 50.0 | | 33.1 | | |
| 11/ 7 | 633.7 | 2865.4 | 57.6 | | 32.8 | | |
| 11/ 8 | 662.3 | 2460.3 | 58.2 | | 25.5 | | |
| 11/ 9 | 909.1 | 3100.0 | 44.4 | | | | |
| 11/10 | | | 22.4 | | | | |
| 11/11 | | | 38.8 | | | | |
| 11/12 | | | 67.6 | | | | |
| 11/13 | | | 52.8 | | | | |
| 11/14 | | | 56.9 | | | | |
| 11/15 | | | 46.6 | | | | |
| 11/16 | 447.2 | | 50.1 | | 25.3 | | |
| 11/17 | 350.1 | 9667.5 | 60.5 | | 27.5 | | |
| 11/18 | 344.5 | 2735.2 | 66.2 | | 36.8 | | |
| 11/19 | 383.1 | 5302.6 | | | 54.6 | | |
| 11/20 | | 2010.4 | 36.2 | | 42.5 | | |
| 11/21 | 453.8 | 2606.8 | 66.6 | | 43.9 | | |
| 11/22 | 456.5 | 2532.4 | 68.3 | | 38.2 | | |
| 11/23 | 461.3 | 2661.0 | 64.2 | | 33.9 | | |
| 11/24 | 443.4 | 2733.7 | 62.8 | | 36.0 | | |
| 11/25 | 477.4 | 1451.9 | 67.5 | | | | |
| 11/26 | 507.3 | 2266.0 | 66.5 | | | | |
| 11/27 | 497.8 | 2309.4 | 75.7 | | | | |
| 11/28 | 473.6 | 3066.6 | 77.3 | | | | |
| 11/29 | 475.9 | 3127.4 | 69.9 | | | | |
| 11/30 | 379.5 | 3291.9 | 71.5 | | | | |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30

UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;

TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| DATE | SITE | HYDROGEN SULFIDE | | | | TOTAL PRECIPITATION
(INCHES) | | | | | |
|-------|------|------------------|------|-----|-----|---------------------------------|-----|-----|-----|-----|-----|
| | | 020 | 021 | 022 | 023 | 024 | 020 | 021 | 022 | 023 | 024 |
| 11/ 1 | | 2.0 | | 1.6 | 0.0 | 0.0 | | | | | |
| 11/ 2 | | 0.0 | 0.0 | 1.3 | 0.0 | | | | | | |
| 11/ 3 | | 0.0 | | 1.0 | 0.0 | | | | | | |
| 11/ 4 | | 2.0 | 2.0 | 0.5 | 0.0 | | | | | | |
| 11/ 5 | | 0.0 | | 1.0 | 0.1 | 0.3 | | | | | |
| 11/ 6 | | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/ 7 | | 0.0 | 0.3 | 0.0 | 2.0 | 0.0 | | | | | |
| 11/ 8 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/ 9 | | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/10 | | | 0.4 | 0.0 | 0.2 | 0.0 | | | | | |
| 11/11 | | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/12 | | 0.0 | 2.0 | 0.0 | 0.1 | 0.0 | | | | | |
| 11/13 | | 0.0 | 0.4 | 0.0 | | 0.0 | | | | | |
| 11/14 | | 0.0 | 0.0 | 0.0 | | 0.0 | | | | | |
| 11/15 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/16 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/17 | | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/18 | | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/19 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/20 | | 0.0 | 15.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/21 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| 11/22 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| 11/23 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| 11/24 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/25 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/26 | | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | | | | | |
| 11/27 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/28 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 11/29 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| 11/30 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30

(C) 115: CONCENTRATION--MILIEGRAMS PER CUBIC METER; WIND SPEED--MILES PER HOUR;
 TEMPERATURE--DEGREES FAHRENHEIT; WIND DIRECTION--DEGREES WITH RESPECT TO THE NORTH)

| DATE | RELATIVE HUMIDITY | | | | TEMPERATURE OUTSIDE | | | |
|-------|-------------------|------|------|------|---------------------|------|------|-----|
| | 020 | 021 | 022 | 024 | 020 | 021 | 022 | 024 |
| 11/1 | 74.6 | 75.0 | 84.1 | | 34.3 | 34.9 | 36.7 | |
| 11/2 | 77.3 | 72.2 | | | 33.5 | 33.3 | | |
| 11/3 | 81.3 | 83.2 | | 98.3 | 27.8 | 29.0 | | |
| 11/4 | 78.3 | 70.5 | 80.5 | 78.1 | 27.4 | 27.7 | 29.9 | |
| 11/5 | 74.7 | 67.2 | 75.8 | 70.2 | 26.1 | 22.4 | 26.2 | |
| 11/6 | 68.3 | | 72.7 | 64.4 | 23.5 | | 27.0 | |
| 11/7 | 64.9 | 53.2 | 60.3 | 58.5 | 27.0 | 25.8 | 29.3 | |
| 11/8 | 65.1 | 63.0 | 71.1 | 58.3 | 31.2 | 30.0 | 29.5 | |
| 11/9 | 95.5 | 80.3 | 97.3 | 97.1 | 28.9 | 30.0 | 30.9 | |
| 11/10 | 75.1 | 67.2 | 85.0 | 79.8 | 28.5 | 29.3 | 30.5 | |
| 11/11 | 64.2 | 59.5 | 67.0 | 58.4 | 24.3 | 24.1 | 27.2 | |
| 11/12 | 52.6 | 51.7 | 59.1 | 47.7 | 31.4 | 31.7 | 32.6 | |
| 11/13 | 53.9 | 55.0 | 62.7 | 49.4 | 33.6 | 33.9 | 35.8 | |
| 11/14 | 63.3 | 59.5 | 63.6 | 57.9 | 31.5 | 30.7 | 33.3 | |
| 11/15 | 71.3 | 60.5 | 64.3 | 52.9 | 29.2 | 32.0 | 35.0 | |
| 11/16 | 63.3 | 60.3 | 68.1 | 52.1 | 27.1 | 25.0 | 29.6 | |
| 11/17 | 52.3 | 51.3 | 57.4 | | 30.0 | 28.7 | 32.5 | |
| 11/18 | 63.2 | 53.6 | 65.4 | | 35.0 | 35.8 | 36.8 | |
| 11/19 | | 65.7 | 74.9 | 66.0 | | 25.1 | 27.1 | |
| 11/20 | 49.6 | 47.8 | 54.1 | 43.6 | 26.9 | 27.3 | 28.3 | |
| 11/21 | 36.9 | 43.6 | 44.4 | 29.9 | 34.1 | 31.1 | 35.1 | |
| 11/22 | 51.5 | 55.1 | 55.4 | 42.1 | 36.9 | 32.4 | 38.7 | |
| 11/23 | 53.9 | 74.8 | 67.0 | 61.2 | 20.5 | 20.4 | 22.1 | |
| 11/24 | 69.2 | 66.9 | 75.3 | 69.3 | 21.0 | 20.2 | 22.2 | |
| 11/25 | 53.0 | | 61.6 | 42.4 | 29.0 | | 29.7 | |
| 11/26 | 53.4 | 62.0 | 60.7 | 52.6 | 20.1 | 20.4 | 22.3 | |
| 11/27 | 49.3 | 51.2 | 53.3 | 43.3 | 24.5 | 23.9 | 26.2 | |
| 11/28 | 74.5 | 63.4 | 70.5 | 73.1 | 18.9 | 21.2 | 20.9 | |
| 11/29 | 60.3 | | 72.0 | 66.4 | 2.4 | | 11.3 | |
| 11/30 | 61.2 | 62.4 | 61.0 | 50.1 | 19.7 | 0.7 | 15.1 | |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30
 UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

WIND SPEED WIND DIRECTION

| DATE | SITE | 020 | 021 | 022 | 024 | 020 | 021 | 022 | 024 |
|-------|------|-----|-----|-----|-----|-------|-------|-------|-------|
| 11/1 | | 1.2 | 2.7 | 3.4 | | 148.2 | 128.4 | 117.6 | |
| 11/2 | | 2.5 | 2.8 | 4.9 | | 322.1 | 340.8 | 58.0 | |
| 11/3 | | 2.2 | 3.2 | 2.7 | | 281.4 | 328.9 | 272.0 | |
| 11/4 | | 4.1 | 3.3 | 0.5 | | 290.8 | 120.1 | 285.0 | |
| 11/5 | | 4.1 | 4.7 | 2.1 | | 175.5 | 342.3 | 103.9 | 111.1 |
| 11/6 | | 3.3 | 2.5 | 1.6 | 0.3 | 151.2 | 148.2 | 105.9 | 150.7 |
| 11/7 | | 2.6 | 2.4 | 5.6 | 3.1 | 138.5 | 160.0 | 113.4 | 141.6 |
| 11/8 | | 2.8 | 1.2 | 3.5 | 1.7 | 141.0 | 153.1 | 107.2 | 158.0 |
| 11/9 | | 4.2 | 1.5 | 0.5 | 0.0 | 121.1 | 125.4 | 141.4 | 224.9 |
| 11/10 | | 1.3 | 0.2 | 0.5 | 0.6 | 140.2 | 129.9 | 110.2 | 223.5 |
| 11/11 | | 3.4 | 1.1 | 2.0 | 0.4 | 122.9 | 102.2 | 101.8 | 66.5 |
| 11/12 | | 4.2 | 6.0 | 6.2 | 2.7 | 123.7 | 124.0 | 104.9 | 127.8 |
| 11/13 | | 3.5 | 1.8 | 2.0 | 1.6 | 67.9 | 63.4 | 83.8 | 312.3 |
| 11/14 | | 1.4 | 2.4 | 3.1 | 1.4 | 123.7 | 124.2 | 98.7 | 124.7 |
| 11/15 | | 3.3 | 1.0 | 3.2 | 0.3 | 139.0 | 118.5 | 107.7 | 74.8 |
| 11/16 | | 1.4 | 0.9 | 5.2 | 0.9 | 125.2 | 147.2 | 105.7 | 107.6 |
| 11/17 | | 2.9 | 2.5 | 6.1 | 2.1 | 142.4 | 137.8 | 114.5 | 106.3 |
| 11/18 | | 1.6 | 4.0 | 1.4 | | 179.7 | 147.4 | 128.8 | |
| 11/19 | | 5.6 | 1.5 | 1.2 | 0.4 | | 135.5 | 108.0 | 215.6 |
| 11/20 | | | 4.0 | 7.1 | 2.8 | 132.9 | 128.4 | 111.4 | 117.8 |
| 11/21 | | 4.1 | 2.9 | 7.0 | 3.8 | 135.6 | 151.8 | 108.3 | 129.8 |
| 11/22 | | 1.5 | 1.3 | 2.5 | 4.0 | 185.4 | 178.1 | 127.1 | 168.7 |
| 11/23 | | 1.0 | 0.2 | 0.8 | 6.8 | 132.2 | 160.5 | 89.1 | 92.7 |
| 11/24 | | 2.0 | 2.5 | 5.6 | 2.0 | 126.3 | 117.9 | 106.4 | 99.3 |
| 11/25 | | 4.2 | 0.4 | 5.2 | 4.2 | 142.6 | 119.3 | 99.6 | 161.6 |
| 11/26 | | 1.8 | 1.3 | 5.3 | 1.1 | 127.6 | 142.2 | 109.2 | 101.3 |
| 11/27 | | 4.2 | 2.5 | 5.0 | 2.0 | 134.3 | 133.6 | 113.1 | 130.6 |
| 11/28 | | 3.5 | 0.4 | 4.1 | 5.7 | 303.2 | 338.3 | 280.1 | 275.6 |
| 11/29 | | 1.4 | | 4.5 | 0.9 | 129.1 | | 105.0 | 74.8 |
| 11/30 | | 3.1 | 1.1 | 7.7 | 2.0 | 124.3 | 125.2 | 108.9 | 99.9 |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30

UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH

| DATE | SITE | WIND SPEED | | | |
|-------|------|---------------|----------------|-----------------|-----------------|
| | | (5-FT)
023 | (30-FT)
023 | (100-FT)
023 | (200-FT)
023 |
| / 1 | | | 6.4 | 7.8 | 8.3 |
| / 2 | | | 1.8 | 1.7 | 1.7 |
| / 3 | | | 6.6 | 7.5 | 6.3 |
| / 4 | | | 1.8 | 1.6 | 1.7 |
| / 5 | | | 1.7 | 1.9 | 1.6 |
| / 6 | | | 3.4 | 3.4 | 3.4 |
| / 7 | | | 6.3 | 7.3 | 7.4 |
| / 8 | | | 4.9 | 5.6 | 5.3 |
| / 9 | | | 1.8 | 0.8 | 0.7 |
| /10 | | | 2.3 | 1.1 | 1.3 |
| <hr/> | | | | | |
| /11 | | | 0.6 | 1.4 | 1.4 |
| /12 | | | 6.9 | 9.4 | 11.8 |
| /13 | | | 2.3 | 3.0 | 4.1 |
| /14 | | | 4.7 | 6.7 | 7.4 |
| /15 | | | 1.2 | 1.3 | 1.9 |
| /16 | | | 1.5 | 1.7 | 1.5 |
| /17 | | 0.7 | 5.1 | 0.8 | 0.0 |
| /18 | | 3.5 | 13.9 | 16.6 | 18.6 |
| /19 | | 1.2 | 1.7 | 2.2 | 2.8 |
| /20 | | 3.0 | 6.2 | 8.1 | 9.1 |
| <hr/> | | | | | |
| /21 | | 0.7 | 8.0 | 9.8 | 10.6 |
| /22 | | | 8.4 | 9.6 | 10.2 |
| /23 | | 1.1 | 1.9 | 2.6 | 2.8 |
| /24 | | 1.3 | 2.8 | 3.8 | 3.4 |
| /25 | | 5.3 | 7.4 | 9.3 | 10.7 |
| /26 | | 1.2 | 2.1 | 2.4 | 3.3 |
| /27 | | 2.9 | 4.2 | 4.8 | 5.1 |
| /28 | | 0.0 | 8.6 | 10.2 | 10.5 |
| /29 | | 0.6 | 0.9 | 0.7 | 0.9 |
| /30 | | 1.6 | 2.4 | 2.4 | 2.4 |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FARENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE | WIND DIRECTION | | | |
|------|----------------|----------------|-----------------|-----------------|
| | (0-FT)
023 | (30-FT)
023 | (100-FT)
023 | (200-FT)
023 |
| 1 | | 185.2 | 175.7 | 196.8 |
| 2 | | 333.1 | 338.1 | 345.6 |
| 3 | | 293.5 | 268.7 | 302.2 |
| 4 | | 252.6 | 264.8 | 294.6 |
| 5 | | 253.3 | 300.2 | 332.5 |
| 6 | | 210.3 | 201.6 | 219.5 |
| 7 | | 173.2 | 160.9 | 185.4 |
| 8 | | 184.9 | 163.4 | 181.1 |
| 9 | | 217.1 | 232.1 | 320.0 |
| 10 | | 208.6 | 215.7 | 258.6 |
| 11 | | 148.4 | 131.3 | 171.3 |
| 12 | | 181.7 | 179.5 | 203.1 |
| 13 | | 236.2 | 290.3 | 296.4 |
| 14 | | 190.1 | 184.2 | 201.1 |
| 15 | | 193.1 | 190.8 | 230.5 |
| 16 | 152.3 | 153.6 | 138.1 | 167.0 |
| 17 | 195.2 | 173.7 | 170.2 | 198.3 |
| 18 | 212.7 | 200.0 | 197.1 | 217.4 |
| 19 | 312.3 | 269.1 | 197.3 | 265.5 |
| 20 | 167.3 | 164.4 | 152.8 | 177.9 |
| 21 | 153.3 | 170.2 | 160.5 | 182.3 |
| 22 | | 199.0 | 186.4 | 203.9 |
| 23 | 207.5 | 329.0 | 316.5 | 327.7 |
| 24 | 171.0 | 171.5 | 166.7 | 198.3 |
| 25 | 182.3 | 191.4 | 182.1 | 207.2 |
| 26 | 247.3 | 235.1 | 246.0 | 262.6 |
| 27 | 173.4 | 179.8 | 158.8 | 187.0 |
| 28 | 315.7 | 315.1 | 312.4 | 323.2 |
| 29 | 252.7 | 232.5 | 277.0 | 293.2 |
| 30 | 150.1 | 155.9 | 160.0 | 180.1 |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE | RELATIVE HUMIDITY | | |
|-------|-------------------|----------------|-----------------|
| | (4-FT)
023 | (34-FT)
023 | (100-FT)
023 |
| TE | | | (200-FT)
023 |
| / 1 | 81.1 | 81.9 | 84.4 |
| / 2 | 82.1 | 84.0 | 84.8 |
| / 3 | 85.3 | 89.7 | 89.5 |
| / 4 | 88.0 | 83.8 | 82.1 |
| / 5 | 74.7 | 71.5 | 71.2 |
| / 6 | 58.2 | 65.1 | 63.4 |
| / 7 | 58.6 | 56.0 | 54.4 |
| / 8 | 59.0 | 57.1 | 55.3 |
| / 9 | 65.3 | 98.8 | 98.2 |
| /10 | 34.5 | 65.0 | 84.8 |
| <hr/> | | | |
| /11 | 82.0 | 59.0 | 56.1 |
| /12 | 51.6 | 49.4 | 47.2 |
| /13 | 50.5 | 49.3 | 48.4 |
| /14 | 50.0 | 53.9 | 51.9 |
| /15 | 53.2 | 52.2 | 50.9 |
| /16 | 50.9 | 49.0 | 47.6 |
| /17 | 46.5 | 43.7 | 42.4 |
| /18 | 57.3 | 59.7 | 60.3 |
| /19 | 60.2 | 60.7 | 66.8 |
| /20 | 40.1 | 43.1 | 41.3 |
| <hr/> | | | |
| /21 | 33.5 | 34.1 | 33.7 |
| /22 | 51.4 | 52.3 | 52.5 |
| /23 | 53.4 | 85.9 | 80.7 |
| /24 | 62.0 | 59.9 | 53.2 |
| /25 | 46.0 | 40.0 | 43.1 |
| /26 | 49.7 | 50.5 | 48.1 |
| /27 | 32.5 | 30.4 | 37.4 |
| /28 | 23.2 | 33.1 | 32.9 |
| /29 | 71.5 | 66.5 | 66.4 |
| /30 | | | |
| <hr/> | | | |
| / 1 | | | 87.7 |
| / 2 | | | 85.8 |
| / 3 | | | 100.0 |
| / 4 | | | 82.0 |
| / 5 | | | 75.9 |
| / 6 | | | 65.2 |
| / 7 | | | 57.0 |
| / 8 | | | 56.4 |
| / 9 | | | 99.3 |
| /10 | | | 82.4 |
| <hr/> | | | |
| /11 | | | 57.9 |
| /12 | | | 49.9 |
| /13 | | | 51.0 |
| /14 | | | 54.6 |
| /15 | | | 52.3 |
| /16 | | | 49.9 |
| /17 | | | 44.4 |
| /18 | | | 63.1 |
| /19 | | | 69.0 |
| /20 | | | 43.3 |
| <hr/> | | | |
| /21 | | | 35.7 |
| /22 | | | 53.5 |
| /23 | | | 77.5 |
| /24 | | | 53.3 |
| /25 | | | 44.7 |
| /26 | | | 50.2 |
| /27 | | | 38.9 |
| /28 | | | 84.6 |
| /29 | | | 74.9 |
| /30 | | | |

TABLE IV. DAILY AVERAGES FOR NOV 1 THRU 30
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE | TEMPERATURE OUTSIDE | | |
|-----------------|---------------------|----------------|-----------------|
| | (6-FT)
023 | (30-FT)
023 | (100-FT)
023 |
| (200-FT)
023 | | | |
| / 1 | 35.9 | 34.8 | 35.2 |
| / 2 | 34.8 | 34.3 | 34.8 |
| / 3 | 26.6 | 26.6 | 27.9 |
| / 4 | 25.3 | 29.4 | 29.5 |
| / 5 | 28.4 | 29.7 | 30.1 |
| / 6 | 29.1 | 30.2 | 30.9 |
| / 7 | 34.2 | 34.5 | 35.5 |
| / 8 | 30.7 | 37.2 | 38.6 |
| / 9 | 31.8 | 30.9 | 31.6 |
| / 10 | 37.3 | 34.2 | 30.4 |
| | | | |
| / 11 | 29.5 | 30.6 | 31.7 |
| / 12 | 30.1 | 36.3 | 37.1 |
| / 13 | 39.2 | 39.6 | 40.8 |
| / 14 | 36.8 | 37.4 | 38.9 |
| / 15 | 37.4 | 37.7 | 39.4 |
| / 16 | 34.2 | 35.3 | 36.8 |
| / 17 | 37.3 | 37.3 | 38.9 |
| / 18 | 37.6 | 37.4 | 37.2 |
| / 19 | 28.1 | 28.6 | 29.6 |
| / 20 | 35.5 | 34.0 | 35.0 |
| | | | |
| / 21 | 41.2 | 41.3 | 42.6 |
| / 22 | 36.5 | 40.5 | 41.3 |
| / 23 | 25.0 | 25.7 | 26.2 |
| / 24 | 26.5 | 29.9 | 31.2 |
| / 25 | 34.0 | 35.4 | 35.9 |
| / 26 | 27.4 | 26.9 | 29.8 |
| / 27 | 31.2 | 31.7 | 32.5 |
| / 28 | 22.1 | 22.7 | 21.7 |
| / 29 | 16.6 | 15.3 | 15.5 |
| / 30 | | 22.4 | 22.5 |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE
DATE | NITROGEN DIOXIDE(NO2) | | | NITRIC OXIDE(NO) | | | NITROGEN DIOXIDE(NO2) | | |
|--------------|-----------------------|--------------|-------------|------------------|-------------|-------------|-----------------------|-----|-----|
| | 020 | 023 | 020 | 023 | 020 | 023 | 020 | 023 | 023 |
| 11/ 1 | 50.0(12:45) | 3.7(0:20) | 58.0(12:45) | 3.7(17:25) | 20.6(11:25) | 3.7(0:20) | | | |
| 11/ 2 | 30.0(2:30) | 5.0(12:20) | 3.7(1:25) | 5.6(12:20) | 5.6(6:45) | 1.9(16:15) | | | |
| 11/ 3 | 3.7(1:35) | 1.0(10:15) | 3.7(10:15) | 0.0(7:00) | 3.7(1:35) | 1.9(13:10) | | | |
| 11/ 4 | 5.0(17:15) | 3.7(0:35) | 3.7(8:40) | 2.0(0:00) | 3.7(8:00) | 3.7(9:35) | | | |
| 11/ 5 | 15.0(2:10) | 9.4(23:35) | 7.5(22:40) | 0.0(0:00) | 15.0(20:10) | 9.4(23:35) | | | |
| 11/ 6 | 18.7(5:40) | 7.5(3:15) | 11.2(8:20) | 1.9(3:30) | 15.0(4:40) | 7.5(3:15) | | | |
| 11/ 7 | 0.4(18:30) | 0.0(11:50) | 1.9(5:25) | 0.0(0:00) | 9.4(18:30) | 5.6(11:50) | | | |
| 11/ 8 | 15.0(20:25) | 0.0(1:00) | 0.0(0:00) | 0.0(0:00) | 15.0(20:25) | 0.0(0:00) | | | |
| 11/ 9 | 20.0(23:55) | 1.9(5:25) | 1.9(2:40) | 0.0(0:00) | 20.6(23:55) | 1.9(5:25) | | | |
| 11/10 | 57.4(7:55) | 46.6(12:20) | 52.4(6:45) | 43.1(10:25) | 22.5(5:25) | 9.4(12:20) | | | |
| 11/11 | 61.0(2:35) | 37.4(2:15) | 58.0(2:45) | 37.4(2:15) | 33.7(4:05) | 1.9(8:10) | | | |
| 11/12 | 1.0(1:50) | 50.2(0:35) | 0.0(0:00) | 56.2(0:35) | 1.9(1:50) | 16.9(21:05) | | | |
| 11/13 | 3.7(22:15) | 43.1(2:50) | 0.0(0:00) | 43.1(2:50) | 3.7(20:15) | 11.2(19:45) | | | |
| 11/14 | 0.0(0:20) | 33.7(5:45) | 0.0(0:00) | 20.6(8:05) | 0.0(0:00) | 16.9(9:40) | | | |
| 11/15 | 15.0(5:55) | 18.7(0:55) | 0.0(0:00) | 15.0(0:55) | 15.0(6:55) | 7.5(0:35) | | | |
| 11/16 | 3.7(17:45) | 7.5(8:40) | 0.0(0:00) | 7.5(8:40) | 3.7(17:45) | 0.0(0:10) | | | |
| 11/17 | 0.4(18:05) | 3.0(12:25) | 0.0(0:00) | 30.0(12:25) | 9.4(18:05) | 0.0(0:10) | | | |
| 11/18 | 3.7(17:15) | 20.6(22:05) | 0.0(0:00) | 15.0(20:35) | 3.7(17:15) | 11.2(21:25) | | | |
| 11/19 | 3.7(18:25) | 20.0(0:40) | 0.0(14:05) | 13.1(0:40) | 3.7(18:25) | 11.2(0:00) | | | |
| 11/20 | 10.0(4:30) | 15.0(3:45) | 1.9(8:15) | 7.5(3:45) | 16.9(4:30) | 9.4(10:30) | | | |
| 11/21 | 9.4(17:50) | 10.0(6:55) | 3.7(23:05) | 9.4(6:55) | 9.4(17:50) | 11.2(22:40) | | | |
| 11/22 | 9.4(4:50) | 18.7(23:55) | 5.6(21:20) | 11.2(19:55) | 9.4(4:50) | 13.1(7:50) | | | |
| 11/23 | 9.4(5:50) | 24.3(21:25) | 9.4(8:50) | 10.9(11:15) | 7.5(8:25) | 15.0(12:40) | | | |
| 11/24 | 11.2(4:20) | 24.3(1:35) | 9.4(7:00) | 15.0(2:45) | 9.4(4:20) | 13.1(12:15) | | | |
| 11/25 | 22.5(23:45) | 39.3(18:20) | 11.2(22:45) | 28.1(21:45) | 22.5(23:45) | 26.2(18:00) | | | |
| 11/26 | 31.9(22:00) | 43.7(16:25) | 15.0(6:30) | 37.4(7:30) | 31.8(22:00) | 43.1(16:25) | | | |
| 11/27 | 31.0(4:45) | 67.4(22:15) | 7.5(2:10) | 39.3(21:50) | 28.1(4:00) | 35.6(0:55) | | | |
| 11/28 | 10.0(3:00) | 30.0(0:20) | 0.0(0:00) | 82.4(0:05) | 15.0(3:00) | 41.2(11:50) | | | |
| 11/29 | 10.0(2:00) | 112.0(7:15) | 5.6(5:30) | 89.9(7:15) | 16.9(2:50) | 35.6(16:10) | | | |
| 11/30 | 10.7(7:00) | 67.4(0:15) | 5.6(10:30) | 63.7(1:10) | 18.7(7:00) | 39.3(7:55) | | | |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METR; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

SULFUR DIOXIDE(SO2)

| SITE | 020 | 021 | 022 | 023 | 024 |
|-------|------------|-------------|-------------|------------|-------------|
| 11/ 1 | 5.2(14:10) | 33.5(0:45) | 5.2(4:00) | 2.6(12:15) | 2.6(0:00) |
| 11/ 2 | 0.0(0:00) | 18.2(10:45) | 2.6(10:35) | 0.0(0:05) | 0.0(12:25) |
| 11/ 3 | 0.0(0:00) | 0.0(0:00) | 0.0(0:10) | 0.0(0:00) | 0.0(0:00) |
| 11/ 4 | 0.0(0:05) | 0.0(0:00) | 10.4(11:20) | 0.0(0:00) | 0.0(17:00) |
| 11/ 5 | 0.0(0:20) | 0.0(15:15) | 10.4(0:00) | 0.0(0:00) | 0.0(0:00) |
| 11/ 6 | 0.0(0:00) | 0.0(11:30) | 31.3(17:05) | 0.0(0:00) | 2.6(3:35) |
| 11/ 7 | 0.0(0:00) | 0.0(0:00) | 13.0(23:30) | 0.0(0:00) | 0.0(0:00) |
| 11/ 8 | 0.0(0:00) | 0.0(0:00) | 10.4(0:25) | 0.0(0:00) | 0.0(0:00) |
| 11/ 9 | 2.6(15:25) | 0.0(0:00) | 10.4(3:55) | 0.0(0:00) | 0.0(0:00) |
| 11/10 | 0.0(12:00) | 0.0(12:00) | 13.0(6:45) | 0.0(0:00) | 0.0(0:00) |
| 11/11 | 0.0(4:00) | 0.0(4:00) | 10.4(3:40) | 0.0(0:00) | 0.0(0:00) |
| 11/12 | 0.0(0:00) | 0.0(0:00) | 10.4(2:05) | 0.0(0:00) | 0.0(0:00) |
| 11/13 | 0.0(0:00) | 0.0(0:00) | 7.8(0:05) | 0.0(14:00) | 2.6(18:25) |
| 11/14 | 0.0(0:00) | 0.0(0:00) | 10.4(7:00) | 0.0(0:15) | 0.0(0:00) |
| 11/15 | 0.0(0:00) | 0.0(0:00) | 5.2(2:05) | 0.0(0:10) | 0.0(0:00) |
| 11/16 | 0.0(0:00) | 2.6(11:25) | 5.2(11:10) | 0.0(0:10) | 15.0(12:30) |
| 11/17 | 0.0(0:00) | 0.0(0:00) | 5.2(3:05) | 0.0(0:10) | 0.0(0:00) |
| 11/18 | 0.0(0:00) | 0.0(0:05) | 2.6(0:00) | 0.0(0:05) | 0.0(12:30) |
| 11/19 | 0.0(14:05) | 2.6(13:55) | 2.6(0:00) | 0.0(0:00) | 0.0(0:00) |
| 11/20 | 0.0(0:00) | 2.6(1:15) | 0.0(0:00) | 0.0(0:05) | 0.0(0:00) |
| 11/21 | 0.0(0:00) | 0.0(0:00) | 0.0(0:00) | 0.0(0:05) | 0.0(0:00) |
| 11/22 | 0.0(0:00) | 0.0(0:00) | 0.0(0:00) | 0.0(0:05) | 0.0(0:00) |
| 11/23 | 0.0(0:00) | 5.2(1:00) | 0.0(0:00) | 0.0(0:00) | 0.0(0:00) |
| 11/24 | 0.0(0:00) | 7.8(11:30) | 0.0(0:00) | 0.0(0:00) | 0.0(0:00) |
| 11/25 | 0.0(0:00) | 0.0(0:05) | 0.0(0:00) | 0.0(0:00) | 0.0(0:00) |
| 11/26 | 0.0(0:00) | 33.0(3:05) | 0.0(0:00) | 0.0(0:00) | 0.0(16:15) |
| 11/27 | 0.0(0:00) | 31.3(3:15) | 0.0(0:00) | 0.0(0:00) | 0.0(0:00) |
| 11/28 | 0.0(0:00) | 31.3(12:45) | 0.0(0:00) | 0.0(0:00) | 0.0(0:00) |
| 11/29 | 0.0(0:00) | 2.6(0:10) | 2.6(14:50) | 0.0(0:00) | 5.2(20:05) |
| 11/30 | 0.0(0:00) | 5.2(11:40) | 0.0(0:00) | 0.0(0:00) | 5.2(0:25) |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| DATE | SITE | TOTAL HYDROCARBONS | | | METHANE | | | NON-METHANE HYDROCARBONS | | |
|-------|------|--------------------|----------------|-----|---------------|----------------|-----|--------------------------|-----|----------------|
| | | 020 | 023 | 020 | 020 | 023 | 020 | 020 | 023 | 023 |
| 11/1 | | 944.9(2:20) | | | 917.6(2:20) | | | 69.7(2:55) | | |
| 11/2 | | | 20188.1(18:10) | | | 866.1(23:40) | | | | 19380.6(22:00) |
| 11/3 | | | 20188.1(0:25) | | | 885.7(5:45) | | | | 19380.6(1:15) |
| 11/4 | | | 20188.1(0:00) | | | 924.7(9:40) | | | | 19361.1(0:20) |
| 11/5 | | 1 20.9(12:20) | | | 131.5(12:25) | | | | | 919.5(12:24) |
| 11/6 | | 955.1(10:30) | | | 881.1(16:34) | | | | | 165.4(15:00) |
| 11/7 | | 972.9(6:55) | | | 917.6(6:55) | | | | | 59.3(18:00) |
| 11/8 | | 1124.2(15:30) | | | 903.3(0:55) | | | | | 302.2(15:30) |
| 11/9 | | 992.5(15:10) | | | 974.9(20:05) | | | | | 145.9(0:50) |
| 11/10 | | 1157.9(7:00) | | | 1129.2(6:55) | | | | | 696.8(14:20) |
| 11/11 | | | 20188.1(11:00) | | | 1058.2(11:20) | | | | 19282.9(20:30) |
| 11/12 | | | 20188.1(0:00) | | | 983.4(0:45) | | | | 19282.9(0:20) |
| 11/13 | | | | | | | | | | 664.3(9:05) |
| 11/14 | | | 14652.7(15:55) | | | 14594.1(19:15) | | | | 104.2(14:35) |
| 11/15 | | | 14633.1(13:15) | | | | | | | |
| 11/16 | | | | | | | | | | |
| 11/17 | | 1340.9(13:30) | | | 1340.9(13:30) | | | | | 19406.7(16:00) |
| 11/18 | | 1640.6(23:00) | | | 1694.1(22:45) | | | | | 19380.6(5:15) |
| 11/19 | | 1024.4(3:45) | | | 1004.8(0:40) | | | | | 19361.1(1:55) |
| 11/20 | | 2272.3(10:20) | | | 931.9(18:10) | | | | | 19322.0(17:15) |
| 11/21 | | 1111.0(27:15) | | | 941.7(20:20) | | | | | 19361.1(16:40) |
| 11/22 | | 1666.0(23:00) | | | 1115.2(22:35) | | | | | 19406.7(19:40) |
| 11/23 | | 1 21.6(17:40) | | | 917.6(1:00) | | | | | |
| 11/24 | | | | | | | | | | |
| 11/25 | | 957.1(23:40) | | | 967.1(23:00) | | | | | |
| 11/26 | | 1 66.0(5:30) | | | 1021.1(5:30) | | | | | 39692.5(20:55) |
| 11/27 | | 1 21.1(5:40) | | | 1047.6(8:15) | | | | | 39816.2(6:45) |
| 11/28 | | 1756.4(10:50) | | | 941.7(5:45) | | | | | 39770.6(1:15) |
| 11/29 | | 1197.6(21:15) | | | 1081.7(22:00) | | | | | 39770.6(4:40) |
| 11/30 | | 1424.3(12:40) | | | 1246.4(20:55) | | | | | |
| 11/31 | | 1 22.1(22:40) | | | 1010.1(22:45) | | | | | 19849.5(3:25) |
| 11/32 | | 1116.1(7:35) | | | 911.7(23:50) | | | | | 19374.1(10:10) |
| 11/33 | | 1 37.4(4:25) | | | 983.4(4:30) | | | | | 19276.4(21:35) |
| 11/34 | | 782.0(7:00) | | | 732.8(7:45) | | | | | 19322.0(2:05) |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (UNIT: CONCENTRATIONS-ATCROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

HYDROGEN SULFIDE

| SITE | 020 | 021 | 022 | 023 | 024 |
|------|--------------|---------------|--------------|--------------|--------------|
| 1/1 | 0.0 (0:00) | 0.0 (0:00) | 4.2 (4:50) | 0.0 (0:00) | 0.0 (0:00) |
| 1/2 | 0.0 (0:00) | 0.0 (0:00) | 2.8 (1:25) | 0.0 (0:05) | 0.0 (12:25) |
| 1/3 | 0.0 (0:00) | 0.0 (0:00) | 2.8 (9:25) | 0.0 (0:00) | 0.0 (0:00) |
| 1/4 | 0.0 (0:05) | 0.0 (0:00) | 4.2 (1:15) | 0.0 (0:00) | 0.0 (17:00) |
| 1/5 | 0.0 (0:00) | | 0.0 (0:00) | 36.0 (23:45) | 12.5 (16:20) |
| 1/6 | 0.0 (0:00) | 2.8 (16:05) | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:00) |
| 1/7 | 0.0 (0:00) | 2.8 (0:05) | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:00) |
| 1/8 | 0.0 (0:00) | 1.4 (3:05) | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:00) |
| 1/9 | 12.5 (20:15) | 1.4 (4:55) | 0.0 (0:05) | 0.0 (0:00) | 0.0 (0:00) |
| 1/10 | 0.0 (0:55) | 1.4 (2:05) | 0.0 (0:05) | 4.2 (11:35) | 0.0 (0:00) |
| 1/11 | 0.0 (11:35) | 2.8 (15:05) | 0.0 (0:05) | 1.4 (1:25) | 0.0 (0:00) |
| 1/12 | 0.0 (0:00) | 4.2 (0:45) | 0.0 (0:00) | 36.7 (6:40) | 0.0 (0:00) |
| 1/13 | 0.0 (0:00) | 4.2 (0:00) | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:00) |
| 1/14 | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:00) | 0.0 (14:00) | 0.0 (0:00) |
| 1/15 | 0.0 (0:00) | 16.0 (0:05) | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:00) |
| 1/16 | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:10) | 0.0 (0:00) |
| 1/17 | 0.0 (0:00) | 42.8 (0:40) | 0.0 (0:00) | 0.0 (0:10) | 0.0 (0:00) |
| 1/18 | 0.0 (0:40) | 107.9 (10:05) | 56.7 (10:35) | 0.0 (0:05) | 0.0 (12:30) |
| 1/19 | 0.0 (14:00) | 42.9 (0:05) | 1.4 (9:30) | 2.8 (10:25) | 0.0 (0:00) |
| 1/20 | 0.0 (0:00) | 87.2 (22:05) | 1.4 (1:20) | 0.0 (0:05) | 0.0 (0:00) |
| 1/21 | 0.0 (0:00) | | 1.4 (14:05) | 0.0 (0:05) | 0.0 (0:00) |
| 1/22 | 0.0 (0:00) | | 1.4 (16:30) | 0.0 (0:05) | 0.0 (0:00) |
| 1/23 | 0.0 (0:00) | | 0.0 (0:00) | 0.0 (0:00) | 0.0 (0:00) |
| 1/24 | 0.0 (0:00) | 0.0 (12:00) | | 0.0 (0:00) | 0.0 (0:00) |
| 1/25 | 0.0 (0:00) | 0.0 (0:05) | 1.4 (0:25) | 0.0 (0:00) | 0.0 (0:00) |
| 1/26 | 0.0 (0:40) | 0.0 (0:00) | 1.4 (2:40) | 0.0 (0:00) | 0.0 (0:00) |
| 1/27 | 0.0 (0:00) | 0.0 (0:00) | 2.8 (15:10) | 4.2 (16:15) | 0.0 (0:00) |
| 1/28 | 0.0 (0:00) | 0.0 (0:00) | 1.4 (2:35) | 0.0 (0:00) | 0.0 (0:00) |
| 1/29 | 0.0 (0:00) | 0.0 (11:20) | 1.4 (3:45) | 0.0 (0:00) | 0.0 (0:00) |
| 1/30 | 0.0 (0:00) | 0.0 (0:00) | 1.4 (0:25) | 0.0 (0:00) | 11.1 (12:40) |
| 1/31 | 0.0 (0:00) | 0.0 (0:00) | 2.8 (5:10) | 0.0 (0:00) | 0.0 (0:00) |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| DATE | SITE | CARBON MONOXIDE | | OZONE | | BAROMETRIC PRESSURE | |
|-------|----------------|-----------------|---------------|--------------|-----|---------------------|-----|
| | | 020 | 023 | 020 | 023 | 020 | 023 |
| 11/1 | 846.6 (1:30) | 3851.9 (7:55) | 109.4 (15:40) | 33.2 (17:05) | | | |
| 11/2 | | 1051.0 (22:10) | 111.4 (12:40) | 27.4 (12:35) | | | |
| 11/3 | | 1035.4 (23:25) | 65.4 (16:44) | 19.5 (18:40) | | | |
| 11/4 | 212.0 (12:20) | 2707.1 (19:10) | 95.7 (12:25) | 27.4 (11:35) | | | |
| 11/5 | 925.7 (15:55) | 15530.0 (15:00) | 89.9 (14:30) | 46.9 (15:30) | | | |
| 11/6 | 1113.4 (15:55) | 4282.5 (12:15) | 95.7 (14:40) | 62.5 (12:55) | | | |
| 11/7 | 1117.5 (15:35) | 4457.4 (7:05) | 101.5 (11:40) | 64.5 (10:50) | | | |
| 11/8 | 1334.8 (20:45) | 4132.0 (22:05) | 99.0 (11:05) | 43.0 (14:20) | | | |
| 11/9 | 1467.9 (13:50) | 4439.1 (10:10) | 89.9 (14:30) | 27.4 (0:35) | | | |
| 11/10 | | 4075.5 (0:05) | 48.8 (1:55) | | | | |
| 11/11 | | | 89.9 (11:40) | | | | |
| 11/12 | | | 91.8 (12:20) | | | | |
| 11/13 | | | 115.3 (3:25) | | | | |
| 11/14 | 2739.7 (13:30) | 14314.3 (15:30) | 90.8 (13:00) | 58.6 (14:25) | | | |
| 11/15 | 525.1 (17:10) | 15559.3 (1:20) | 89.9 (13:50) | 50.8 (0:05) | | | |
| 11/16 | 423.5 (0:05) | 10610.2 (1:15) | 91.8 (13:40) | 40.9 (11:25) | | | |
| 11/17 | 5152.3 (17:05) | 5437.5 (1:10) | 89.9 (10:55) | 66.4 (15:35) | | | |
| 11/18 | 2760.9 (10:00) | 9101.3 (2:30) | 86.2 (14:15) | 76.2 (13:25) | | | |
| 11/19 | 523.1 (18:02) | 4020.7 (23:25) | 89.9 (15:40) | 50.6 (16:30) | | | |
| 11/20 | 500.3 (17:50) | 5472.5 (5:05) | 80.0 (15:55) | 70.3 (15:30) | | | |
| 11/21 | 517.7 (15:00) | 5564.3 (10:55) | 95.7 (11:17) | 75.2 (11:05) | | | |
| 11/22 | 651.9 (18:20) | 3885.0 (23:05) | 85.7 (15:25) | 72.3 (15:30) | | | |
| 11/23 | 435.1 (0:20) | 4244.1 (10:45) | 91.8 (14:25) | 52.7 (14:10) | | | |
| 11/24 | 453.9 (0:05) | 4379.1 (8:10) | 95.7 (12:25) | 62.5 (11:55) | | | |
| 11/25 | 943.6 (17:15) | 27300.4 (22:20) | 95.7 (15:05) | 76.2 (16:00) | | | |
| 11/26 | 556.9 (21:20) | 5123.4 (22:10) | 107.5 (13:45) | 48.8 (16:15) | | | |
| 11/27 | 903.0 (15:15) | 4537.7 (1:00) | 113.3 (11:05) | 84.2 (15:00) | | | |
| 11/28 | 520.5 (23:40) | 4352.1 (9:10) | 95.7 (17:00) | | | | |
| 11/29 | 737.4 (23:40) | 4144.3 (23:40) | 113.5 (13:10) | | | | |
| 11/30 | 729.4 (5:25) | 4350.1 (12:10) | 117.2 (19:50) | | | | |

CONCORDIA

TABLE 7. VARIOUS FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE | TOTAL PRECIPITATION
(INCHES) | | |
|-------|---------------------------------|-----|-----|
| | W21 | W23 | W24 |
| 11/ 1 | | | |
| 11/ 2 | | | |
| 11/ 3 | | | |
| 11/ 4 | | | |
| 11/ 5 | | | |
| 11/ 6 | | | |
| 11/ 7 | | | |
| 11/ 8 | | | |
| 11/ 9 | | | |
| 11/10 | | | |
| 11/11 | | | |
| 11/12 | | | |
| 11/13 | | | |
| 11/14 | | | |
| 11/15 | | | |
| 11/16 | | | |
| 11/17 | | | |
| 11/18 | | | |
| 11/19 | | | |
| 11/20 | | | |
| 11/21 | | | |
| 11/22 | | | |
| 11/23 | | | |
| 11/24 | | | |
| 11/25 | | | |
| 11/26 | | | |
| 11/27 | | | |
| 11/28 | | | |
| 11/29 | | | |
| 11/30 | | | |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

TEMPERATURE OUTSIDE

| SITE | 020 | 021 | 022 | 024 |
|-------|--------------|--------------|--------------|-----|
| 11/ 1 | 42.0 (13:26) | 42.0 (13:37) | 46.0 (14:45) | |
| 11/ 2 | 43.0 (15:29) | 42.0 (14:55) | 45.0 (14:35) | |
| 11/ 3 | 31.0 (11:37) | 31.0 (9:40) | 34.0 (11:14) | |
| 11/ 4 | 36.0 (14:27) | 37.0 (16:55) | 40.0 (15:19) | |
| 11/ 5 | 41.0 (14:54) | 42.0 (13:50) | 42.0 (13:45) | |
| 11/ 6 | 42.0 (14:40) | 42.0 (12:49) | 45.0 (13:40) | |
| 11/ 7 | 45.0 (13:42) | 48.0 (13:30) | 48.0 (13:30) | |
| 11/ 8 | 49.0 (12:17) | 49.0 (13:20) | 49.0 (15:05) | |
| 11/ 9 | 36.0 (13:55) | 37.0 (11:50) | 36.0 (13:50) | |
| 11/10 | 37.0 (15:45) | 37.0 (12:55) | 39.0 (13:25) | |
| 11/11 | 41.0 (14:45) | 42.0 (13:15) | 43.0 (14:25) | |
| 11/12 | 40.0 (12:10) | 47.0 (12:45) | 47.0 (12:35) | |
| 11/13 | 49.0 (11:55) | 52.0 (12:05) | 52.0 (11:25) | |
| 11/14 | 47.0 (12:35) | 52.0 (13:31) | 51.0 (12:27) | |
| 11/15 | 46.0 (13:25) | 49.0 (15:15) | 50.0 (13:55) | |
| 11/16 | 48.0 (15:30) | 47.0 (13:25) | 49.0 (14:35) | |
| 11/17 | 40.0 (12:15) | 49.0 (14:50) | 50.0 (12:30) | |
| 11/18 | 42.0 (9:15) | 42.0 (9:17) | 44.0 (9:15) | |
| 11/19 | 36.0 (14:54) | 37.0 (13:45) | 38.0 (14:55) | |
| 11/20 | 45.0 (13:45) | 47.0 (12:50) | 48.0 (12:24) | |
| 11/21 | 51.0 (12:27) | 53.0 (14:35) | 50.0 (12:40) | |
| 11/22 | 57.0 (12:10) | 52.0 (11:40) | 51.0 (12:25) | |
| 11/23 | 31.0 (15:42) | 31.0 (13:10) | 31.0 (13:44) | |
| 11/24 | 41.0 (14:25) | 42.0 (13:55) | 41.0 (12:49) | |
| 11/25 | 40.0 (13:15) | 47.0 (12:22) | 45.0 (13:05) | |
| 11/26 | 38.0 (14:55) | 41.0 (14:20) | 40.0 (14:25) | |
| 11/27 | 42.0 (12:55) | 42.0 (11:15) | 45.0 (13:25) | |
| 11/28 | 23.0 (14:50) | 34.0 (14:44) | 32.0 (1:00) | |
| 11/29 | 25.0 (15:15) | 19.0 (14:24) | 26.0 (14:15) | |
| 11/30 | 35.0 (14:54) | 37.0 (13:40) | 35.0 (13:40) | |

TABLE V. DAILY FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
(UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| SITE | WIND SPEED | | | WIND DIRECTION | | |
|--------|------------|--------------|------|----------------|------|--------------|
| | 220 | 221 | 222 | 024 | 024 | 024 |
| 11/1 | 9.0 | 148.0(15:12) | 10.0 | 333.0(12:35) | 12.0 | 112.0(15:05) |
| 11/2 | 6.0 | 4.0(15:05) | 10.0 | 343.0(15:40) | 9.0 | 280.0(14:25) |
| 11/3 | 0.0 | 236.0(15:50) | 10.0 | 355.0(16:00) | 10.0 | 268.0(16:05) |
| 11/4 | 4.0 | 3.0(14:10) | 3.0 | 335.0(17:00) | 10.0 | 273.0(15:20) |
| 11/5 | 5.0 | 283.0(15:15) | 7.0 | 334.0(15:25) | 7.0 | 109.0(1:25) |
| 11/6 | 5.0 | 273.0(10:25) | 9.0 | 270.0(14:15) | 9.0 | 95.0(0:40) |
| 11/7 | 9.0 | 120.0(5:55) | 11.0 | 162.0(15:15) | 12.0 | 115.0(5:50) |
| 11/8 | 13.0 | 3.0(15:35) | 15.0 | 307.0(15:05) | 14.0 | 110.0(0:30) |
| 11/9 | 1.0 | 347.0(14:25) | 10.0 | 42.0(14:30) | 8.0 | 254.0(14:40) |
| 11/10 | 7.0 | 281.0(15:40) | 7.0 | 251.0(15:15) | 8.0 | 134.0(9:55) |
| 11/11 | 8.0 | 281.0(12:50) | 8.0 | 117.0(22:25) | 11.0 | 110.0(23:25) |
| 11/12 | 11.0 | 132.0(5:30) | 11.0 | 138.0(18:25) | 11.0 | 109.0(0:20) |
| 11/13 | 15.0 | 290.0(12:05) | 19.0 | 331.0(12:05) | 15.0 | 275.0(11:30) |
| 11/14 | 6.0 | 132.0(7:45) | 10.0 | 109.0(22:20) | 11.0 | 101.0(8:45) |
| 11/15 | 8.0 | 201.0(15:10) | 10.0 | 122.0(11:05) | 10.0 | 120.0(4:50) |
| 11/16 | 7.0 | 124.0(23:10) | 5.0 | 118.0(17:10) | 14.0 | 116.0(21:45) |
| 11/17 | 11.0 | 129.0(5:37) | 10.0 | 105.0(10:55) | 14.0 | 111.0(4:00) |
| 11/18 | 10.0 | 265.0(10:20) | 13.0 | 164.0(11:40) | 16.0 | 277.0(19:25) |
| 11/19 | 4.0 | 130.0(22:50) | 7.0 | 114.0(19:55) | 9.0 | 96.0(21:35) |
| 11/20 | 11.0 | 131.0(4:15) | 12.0 | 155.0(15:25) | 13.0 | 113.0(7:30) |
| 11/21 | 16.0 | 124.0(4:45) | 12.0 | 158.0(14:20) | 16.0 | 101.0(0:55) |
| 11/22 | 14.0 | 120.0(6:30) | 14.0 | 164.0(11:40) | 16.0 | 95.0(7:30) |
| 11/23 | 6.0 | 271.0(0:00) | 5.0 | 114.0(17:00) | 11.0 | 87.0(23:20) |
| 11/24 | 11.0 | 129.0(23:55) | 10.0 | 104.0(22:35) | 14.0 | 113.0(8:25) |
| 11/25 | 14.0 | 134.0(5:05) | 15.0 | 164.0(12:50) | 15.0 | 104.0(5:30) |
| 11/26 | 11.0 | 84.0(22:45) | 8.0 | 116.0(9:10) | 13.0 | 116.0(23:10) |
| 11/27 | 16.0 | 128.0(5:15) | 12.0 | 154.0(12:45) | 18.0 | 108.0(8:00) |
| 11/28 | 11.0 | 314.0(15:05) | 23.0 | 339.0(15:05) | 12.0 | 281.0(15:20) |
| 11/29 | 4.0 | 128.0(2:35) | 7.0 | 112.0(0:05) | 11.0 | 100.0(5:40) |
| 11/30 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/31 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/32 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/33 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/34 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/35 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/36 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/37 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/38 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/39 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/40 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/41 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/42 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/43 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/44 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/45 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/46 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/47 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/48 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/49 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/50 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/51 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/52 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/53 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/54 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/55 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/56 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/57 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/58 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/59 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/60 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/61 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/62 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/63 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/64 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/65 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/66 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/67 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/68 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/69 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/70 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/71 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/72 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/73 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/74 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/75 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/76 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/77 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/78 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/79 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/80 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/81 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/82 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/83 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/84 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/85 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/86 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/87 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/88 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/89 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/90 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/91 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/92 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/93 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/94 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/95 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/96 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/97 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/98 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/99 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |
| 11/100 | 0.0 | 134.0(4:35) | 8.0 | 100.0(10:20) | 14.0 | 112.0(20:55) |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| DATE | SITE | (8-FT) | | (30-FT) | | WIND SPEED | | WIND DIRECTION | | (100-FT) | | (200-FT) | |
|-------|------|--------------|-----|---------|--------------|------------|--------------|----------------|--------------|----------|-----|----------|-----|
| | | 023 | 023 | 023 | 023 | 023 | 023 | 023 | 023 | 023 | 023 | 023 | 023 |
| 11/1 | | | | 15.0 | 203.0(12:55) | 16.0 | 192.0(12:55) | 16.0 | 206.0(12:55) | | | | |
| 11/2 | | | | 12.0 | 39.0(15:00) | 13.0 | 29.0(16:00) | 13.0 | 29.0(16:00) | | | | |
| 11/3 | | | | 11.0 | 299.0(15:55) | 12.0 | 203.0(15:45) | 14.0 | 304.0(15:45) | | | | |
| 11/4 | | | | 8.0 | 293.0(0:12) | 10.0 | 289.0(0:20) | 9.0 | 295.0(0:00) | | | | |
| 11/5 | | | | 9.0 | 344.0(13:55) | 11.0 | 309.0(17:05) | 11.0 | 326.0(17:05) | | | | |
| 11/6 | | | | 13.0 | 213.0(12:45) | 13.0 | 203.0(12:45) | 14.0 | 256.0(16:50) | | | | |
| 11/7 | | | | 15.0 | 193.0(11:25) | 17.0 | 189.0(11:45) | 16.0 | 209.0(11:45) | | | | |
| 11/8 | | | | 15.0 | 219.0(11:20) | 16.0 | 194.0(13:25) | 18.0 | 230.0(11:20) | | | | |
| 11/9 | | | | 13.0 | 7.0(14:55) | 12.0 | 344.0(14:45) | 15.0 | 10.0(14:55) | | | | |
| 11/10 | | | | 12.0 | 235.0(18:10) | 14.0 | 225.0(18:10) | 17.0 | 245.0(18:10) | | | | |
| 11/11 | | | | 11.0 | 344.0(14:45) | 13.0 | 198.0(19:30) | 15.0 | 224.0(19:30) | | | | |
| 11/12 | | | | 18.0 | 199.0(21:45) | 21.0 | 189.0(21:40) | 26.0 | 207.0(21:40) | | | | |
| 11/13 | | | | 20.0 | 352.0(12:30) | 22.0 | 307.0(12:05) | 23.0 | 219.0(1:20) | | | | |
| 11/14 | | | | 13.0 | 181.0(13:05) | 17.0 | 164.0(23:10) | 22.0 | 201.0(23:10) | | | | |
| 11/15 | 9.0 | 312.0(15:55) | | 12.0 | 190.0(0:10) | 16.0 | 183.0(0:10) | 21.0 | 201.0(0:10) | | | | |
| 11/16 | 5.0 | 335.0(13:30) | | 10.0 | 181.0(17:25) | 14.0 | 167.0(17:35) | 16.0 | 193.0(18:40) | | | | |
| 11/17 | 13.0 | 201.0(23:05) | | 16.0 | 237.0(12:20) | 19.0 | 186.0(23:05) | 23.0 | 208.0(23:05) | | | | |
| 11/18 | 21.0 | 100.0(9:40) | | 26.0 | 194.0(9:40) | 31.0 | 181.0(9:55) | 33.0 | 202.0(9:55) | | | | |
| 11/19 | 7.0 | 271.0(16:15) | | 10.0 | 263.0(16:15) | 13.0 | 185.0(19:35) | 14.0 | 178.0(20:45) | | | | |
| 11/20 | 14.0 | 215.0(15:00) | | 17.0 | 204.0(15:05) | 19.0 | 189.0(15:05) | 21.0 | 180.0(5:40) | | | | |
| 11/21 | 11.0 | 186.0(23:50) | | 22.0 | 179.0(23:45) | 26.0 | 169.0(23:40) | 31.0 | 180.0(23:40) | | | | |
| 11/22 | 16.0 | 180.0(0:50) | | 23.0 | 183.0(0:50) | 27.0 | 166.0(0:45) | 31.0 | 185.0(0:10) | | | | |
| 11/23 | 9.0 | 219.0(18:05) | | 19.0 | 331.0(0:20) | 20.0 | 323.0(0:20) | 22.0 | 335.0(0:20) | | | | |
| 11/24 | 8.0 | 253.0(13:15) | | 11.0 | 174.0(17:55) | 15.0 | 189.0(18:20) | 16.0 | 201.0(18:10) | | | | |
| 11/25 | 24.0 | 192.0(12:50) | | 30.0 | 195.0(12:50) | 35.0 | 185.0(12:55) | 39.0 | 203.0(12:55) | | | | |
| 11/26 | 9.0 | 309.0(14:00) | | 12.0 | 304.0(14:30) | 12.0 | 295.0(14:30) | 15.0 | 259.0(3:55) | | | | |
| 11/27 | 15.0 | 190.0(12:50) | | 21.0 | 185.0(14:45) | 23.0 | 170.0(14:45) | 23.0 | 201.0(14:45) | | | | |
| 11/28 | 10.0 | 302.0(15:30) | | 23.0 | 340.0(15:30) | 28.0 | 335.0(15:30) | 30.0 | 345.0(15:30) | | | | |
| 11/29 | 7.0 | 369.0(12:15) | | 9.0 | 222.0(1:00) | 10.0 | 246.0(1:10) | 10.0 | 295.0(0:05) | | | | |
| 11/30 | 0.0 | 211.0(15:15) | | 11.0 | 120.0(13:30) | 13.0 | 161.0(16:50) | 15.0 | 183.0(16:50) | | | | |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (UNITS: CONCENTRATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FAHRENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| DATE | SITE | RELATIVE HUMIDITY | | |
|-------|------|-------------------|----------------|-----------------|
| | | (8-FT)
023 | (30-FT)
023 | (100-FT)
023 |
| 11/1 | | 90.0(7:34) | 91.0(7:45) | 94.0(7:10) |
| 11/2 | | 95.0(5:25) | 100.0(5:20) | 99.0(5:20) |
| 11/3 | | 99.0(18:10) | 100.0(0:15) | 100.0(0:15) |
| 11/4 | | 97.0(23:00) | 100.0(0:00) | 100.0(0:00) |
| 11/5 | | 80.0(1:20) | 88.0(7:50) | 90.0(8:25) |
| 11/6 | | 87.0(4:00) | 85.0(7:40) | 85.0(7:55) |
| 11/7 | | 75.0(6:30) | 72.0(6:10) | 68.0(6:10) |
| 11/8 | | 75.0(6:10) | 70.0(6:30) | 71.0(23:55) |
| 11/9 | | 100.0(6:25) | 100.0(1:40) | 100.0(2:00) |
| 11/10 | | 100.0(5:10) | 100.0(0:00) | 100.0(0:30) |
| 11/11 | | 87.0(3:20) | 85.0(4:00) | 82.0(0:00) |
| 11/12 | | 90.0(12:00) | 60.0(1:35) | 60.0(12:00) |
| 11/13 | | 65.0(23:50) | 61.0(23:35) | 59.0(23:50) |
| 11/14 | | 70.0(5:30) | 71.0(5:30) | 64.0(5:25) |
| 11/15 | | 60.0(7:10) | 64.0(8:45) | 62.0(8:45) |
| 11/16 | | 67.0(5:40) | 67.0(6:00) | 64.0(6:20) |
| 11/17 | | 57.0(6:00) | 57.0(7:10) | 52.0(7:20) |
| 11/18 | | 61.0(20:10) | 90.0(20:15) | 97.0(19:50) |
| 11/19 | | 61.0(8:50) | 100.0(8:55) | 97.0(5:45) |
| 11/20 | | 60.0(2:45) | 64.0(2:40) | 58.0(0:05) |
| 11/21 | | 30.0(23:00) | 30.0(12:15) | 30.0(23:00) |
| 11/22 | | 90.0(23:15) | 100.0(21:30) | 100.0(22:00) |
| 11/23 | | 90.0(2:15) | 100.0(0:00) | 100.0(0:00) |
| 11/24 | | 81.0(4:40) | 75.0(6:50) | 63.0(9:40) |
| 11/25 | | 50.0(0:00) | 57.0(6:50) | 52.0(6:40) |
| 11/26 | | 54.0(7:45) | 50.0(6:25) | 62.0(6:55) |
| 11/27 | | 63.0(23:00) | 75.0(23:40) | 74.0(23:40) |
| 11/28 | | 100.0(7:00) | 100.0(2:15) | 100.0(2:45) |
| 11/29 | | 92.0(3:00) | 91.0(5:35) | 94.0(5:15) |
| 11/30 | | 70.0(2:30) | 64.0(3:15) | 63.0(3:05) |
| 11/21 | | | | 41.0(17:55) |
| 11/22 | | | | 100.0(21:20) |
| 11/23 | | | | 100.0(0:00) |
| 11/24 | | | | 66.0(6:35) |
| 11/25 | | | | 53.0(0:00) |
| 11/26 | | | | 66.0(7:20) |
| 11/27 | | | | 71.0(23:55) |
| 11/28 | | | | 100.0(2:10) |
| 11/29 | | | | 100.0(2:50) |
| 11/30 | | | | 73.0(4:30) |

TABLE V. MAXIMUM FIVE MINUTE AVERAGES AND TIME OF OCCURRENCE FOR NOV 1 THRU 30
 (C) ITS: CIRCULATIONS-MICROGRAMS PER CUBIC METER; WIND SPEED-MILES PER HOUR;
 TEMPERATURE-DEGREES FARENHEIT; WIND DIRECTION-DEGREES WITH RESPECT TO THE NORTH)

| DATE | SITE | TEMPERATURE OUTSIDE | | |
|-------|------|---------------------|----------------|-----------------|
| | | (8-FT)
023 | (30-FT)
023 | (100-FT)
023 |
| 11/ 1 | | 41.0(15:15) | 41.0(14:20) | 41.0(14:40) |
| 11/ 2 | | 42.0(14:05) | 42.0(14:05) | 42.0(14:00) |
| 11/ 3 | | 33.0(12:25) | 31.0(12:25) | 30.0(0:00) |
| 11/ 4 | | 37.0(14:00) | 35.0(14:00) | 30.0(14:00) |
| 11/ 5 | | 40.0(13:10) | 38.0(14:40) | 36.0(15:05) |
| 11/ 6 | | 42.0(12:35) | 40.0(13:05) | 40.0(13:05) |
| 11/ 7 | | 45.0(13:35) | 44.0(14:45) | 44.0(14:35) |
| 11/ 8 | | 50.0(13:30) | 46.0(12:05) | 47.0(15:00) |
| 11/ 9 | | 35.0(0:50) | 35.0(0:00) | 36.0(0:00) |
| 11/10 | | 30.0(12:25) | 36.0(15:00) | 36.0(14:50) |
| 11/11 | | 41.0(14:00) | 39.0(14:00) | 40.0(15:55) |
| 11/12 | | 45.0(15:15) | 44.0(12:10) | 44.0(12:15) |
| 11/13 | | 50.0(11:00) | 46.0(12:20) | 46.0(12:20) |
| 11/14 | | 50.0(13:55) | 47.0(12:50) | 47.0(12:35) |
| 11/15 | | 45.0(15:30) | 46.0(15:40) | 47.0(15:55) |
| 11/16 | | 45.0(14:25) | 45.0(14:40) | 46.0(15:05) |
| 11/17 | | 50.0(15:20) | 46.0(12:00) | 46.0(12:00) |
| 11/18 | | 45.0(0:20) | 42.0(0:25) | 41.0(0:20) |
| 11/19 | | 50.0(15:20) | 36.0(15:45) | 36.0(15:25) |
| 11/20 | | 45.0(15:20) | 44.0(12:50) | 44.0(13:00) |
| 11/21 | | 55.0(12:20) | 49.0(12:10) | 50.0(12:20) |
| 11/22 | | 50.0(15: 0) | 49.0(13:40) | 49.0(13:00) |
| 11/23 | | 52.0(15:40) | 30.0(15:25) | 30.0(15:15) |
| 11/24 | | 41.0(13:30) | 40.0(15:20) | 40.0(14:00) |
| 11/25 | | 47.0(14:35) | 45.0(14:35) | 45.0(14:35) |
| 11/26 | | 39.0(14:20) | 37.0(13:50) | 37.0(14:20) |
| 11/27 | | 42.0(13:10) | 42.0(13:40) | 42.0(13:45) |
| 11/28 | | 31.0(0:40) | 29.0(0:25) | 30.0(0:35) |
| 11/29 | | 25.0(14:45) | 26.0(14:45) | 25.0(14:55) |
| 11/30 | | 30.0(14:00) | 30.0(14:25) | 34.0(14:05) |
| 11/31 | | | | 37.0(11:10) |

TABLE VI. THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES FOR NOV 1-30
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC FEET)

NITROGEN OXIDES(NOX)

1-HOUR

M23

M24

SITE

| | | | | | |
|---|--------------------|------|---|--------------------|------|
| 1 | 11/11(1:55- 2:55) | 47.4 | 1 | 11/29(9:55-10:55) | 54.1 |
| 2 | 11/11(7:15- 8:15) | 48.7 | 2 | 11/28(8:10- 9:10) | 49.9 |
| 3 | 11/11(4:35- 5:35) | 44.3 | 3 | 11/29(11:20-12:20) | 45.6 |
| 4 | 11/11(5:50- 6:50) | 44.3 | 4 | 11/30(9:35-10:35) | 43.8 |
| 5 | 11/11(6:00- 1:40) | 46.7 | 5 | 11/28(6:00- 7:00) | 43.1 |

NITRIC OXIDE(NO)

1-HOUR

M23

M24

SITE

| | | | | | |
|---|--------------------|------|---|--------------------|------|
| 1 | 11/11(5:50- 6:50) | 44.3 | 1 | 11/28(8:10- 9:10) | 38.5 |
| 2 | 11/11(7:40- 8:40) | 41.8 | 2 | 11/29(9:55-10:55) | 37.4 |
| 3 | 11/11(4:20- 5:20) | 41.3 | 3 | 11/29(8:10- 9:10) | 34.0 |
| 4 | 11/11(1:50- 2:50) | 41.3 | 4 | 11/12(3:50- 4:50) | 29.6 |
| 5 | 11/11(9:25-10:00) | 37.6 | 5 | 11/12(7:05- 8:05) | 28.2 |

NITROGEN DIOXIDE(NO2)

1-HOUR

M23

M24

SITE

| | | | | | |
|---|--------------------|------|---|--------------------|------|
| 1 | 11/26(22:30-23:30) | 26.7 | 1 | 11/26(16:00-17:00) | 21.2 |
| 2 | 11/27(4:25- 5:05) | 24.7 | 2 | 11/30(10:50-11:50) | 29.4 |
| 3 | 11/26(23:30- 0:30) | 22.9 | 3 | 11/29(11:00-12:00) | 18.9 |
| 4 | 11/11(3:25- 4:25) | 21.1 | 4 | 11/29(12:15-13:15) | 18.9 |
| 5 | 11/27(5:15- 6:15) | 24.9 | 5 | 11/28(3:35- 4:35) | 17.2 |

TABLE VI. THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES FOR NOV 1-30
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

| SITE | | SULFUR DIOXIDE | | SULFUR DIOXIDE | | SULFUR DIOXIDE | | | |
|------|--------------------|----------------|--|----------------|--------------------|----------------|---|--------------------|------|
| | | 1-HOUR | | 1-HOUR | | 1-HOUR | | | |
| | | 020 | | 021 | | 022 | | | |
| 1 | 11/ 1(13:50-14:50) | 4.6 | | 1 | 11/ 1(1:35- 2:35) | 32.8 | 1 | 11/ 6(17:00-18:00) | 13.0 |
| 2 | 11/ 9(15:30-16:30) | 0.4 | | 2 | 11/26(4:50- 5:50) | 27.4 | 2 | 11/ 6(15:30-16:30) | 11.3 |
| | | | | 3 | 11/26(6:50- 7:50) | 26.9 | 3 | 11/ 6(18:05-19:05) | 11.3 |
| | | | | 4 | 11/26(12:40-13:40) | 26.7 | 4 | 11/ 8(6:50- 7:50) | 10.0 |
| | | | | 5 | 11/26(9:25-10:25) | 25.2 | 5 | 11/ 6(11:00-12:00) | 9.8 |

| SITE | | SULFUR DIOXIDE | | SULFUR DIOXIDE | | SULFUR DIOXIDE | |
|------|--------------------|----------------|--|----------------|--------------------|----------------|--|
| | | 1-HOUR | | 1-HOUR | | 1-HOUR | |
| | | 023 | | 024 | | 025 | |
| 1 | 11/ 1(11:15-12:15) | 0.2 | | 1 | 11/29(21:10-22:10) | 5.2 | |
| | | | | 2 | 11/29(22:40-23:40) | 5.2 | |
| | | | | 3 | 11/30(0:20- 1:20) | 5.2 | |
| | | | | 4 | 11/30(2:10- 3:10) | 5.2 | |
| | | | | 5 | 11/30(4:20- 5:20) | 5.2 | |

| SITE | | SULFUR DIOXIDE | | SULFUR DIOXIDE | | SULFUR DIOXIDE | | | |
|------|--------------------|----------------|--|----------------|--------------------|----------------|---|--------------------|------|
| | | 3-HOUR | | 3-HOUR | | 3-HOUR | | | |
| | | 020 | | 021 | | 022 | | | |
| 1 | 11/ 1(12:05-15:05) | 1.8 | | 1 | 11/ 1(0:00- 3:00) | 29.0 | 1 | 11/ 6(15:40-18:40) | 12.0 |
| 2 | 11/ 9(13:30-16:30) | 0.1 | | 2 | 11/26(5:20- 8:20) | 26.1 | 2 | 11/ 4(16:20-19:20) | 9.1 |
| | | | | 3 | 11/26(10:40-13:40) | 24.7 | 3 | 11/10(0:20- 3:20) | 9.0 |
| | | | | 4 | 11/26(15:20-18:20) | 11.9 | 4 | 11/10(6:20- 9:20) | 8.9 |
| | | | | 5 | 11/27(2:50- 5:50) | 11.4 | 5 | 11/ 8(5:50- 8:50) | 8.8 |

| SITE | | 023 | | 024 | | |
|------|--------------------|--------|--|-----|--------------------|-----|
| | | 1-HOUR | | | | |
| 1 | 11/ 1(9:15-12:15) | 0.0 | | 1 | 11/29(22:40- 1:40) | 4.8 |
| | | | | 2 | 11/30(2:10- 5:10) | 4.8 |
| | | | | 3 | 11/30(5:15- 8:15) | 4.7 |
| | | | | 4 | 11/30(8:20-11:20) | 3.4 |
| | | | | 5 | 11/29(12:55-15:55) | 2.6 |

TABLE VI. THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES FOR NOV 1-30
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

| SULFUR DIOXIDE | | 24-HOUR | | 021 | | 022 | |
|----------------|--------------------|---------|--------------------|------|---|--------------------|-----|
| 1 | 11/ 1-11/ 2(1:00) | 0.2 | 11/25-11/26(22:00) | 18.6 | 1 | 11/ 6-11/ 7(5:00) | 8.6 |
| 2 | 11/ 9-11/10(2:00) | 0.0 | 11/26-11/27(23:00) | 7.4 | 2 | 11/ 9-11/10(10:00) | 8.3 |
| | | | 11/27-11/28(0:00) | 4.1 | 3 | 11/ 4-11/ 5(14:00) | 8.3 |
| | | | 11/ 1-11/ 2(1:00) | 2.5 | 4 | 11/ 7-11/ 8(17:00) | 7.8 |
| | | | 11/ 2-11/ 3(2:00) | 0.1 | 5 | 11/11-11/12(20:00) | 7.6 |

| ITE | 025 | 024 |
|----------------------|-----|----------------------|
| 1 11/ 1-11/ 2(1:00) | 0.2 | 1 11/29-11/30(20:00) |
| | | 2 11/15-11/16(13:00) |
| | | 3 11/13-11/14(15:00) |
| | | 4 11/ 5-11/ 6(4:00) |
| | | 3.7 |
| | | 0.1 |
| | | 0.0 |
| | | 0.0 |

HYDROGEN SULFIDE (H₂S) (SSH) EELITS[illegible]

| ITE | 023 | 024 |
|-----|---------------------|----------------------|
| 1 | 11/12(5:40 - 9:40) | 1 11/ 5(15:55-16:55) |
| 2 | 11/ 5(22:45-23:45) | 2 11/29(11:40-12:40) |
| 3 | 11/10(14:52-15:52) | |
| 4 | 11/10(12:05-13:05) | |
| 5 | 11/10(9:50 - 9:55) | |
| | | 8.3 |
| | | 0.9 |

TABLE VI. THE FIVE MAXIMUM AVERAGES FOR NOV 1-30
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

| SITE | TOTAL HYDROCARBON | |
|------|--------------------|-------|
| | 3-HOUR (6-9AM) | 023 |
| 1 | 11/26(6:00- 9:00) | 196.4 |
| 2 | 11/27(6:00- 9:00) | 976.8 |
| 3 | 11/28(6:00- 9:00) | 978.7 |
| 4 | 11/ 7(6:00- 9:00) | 977.9 |
| 5 | 11/25(6:00- 9:00) | 974.2 |

| SITE | METHANE | |
|------|--------------------|-------|
| | 3-HOUR (6-9AM) | 023 |
| 1 | 11/ 9(6:00- 9:00) | 933.2 |
| 2 | 11/23(6:00- 9:00) | 921.9 |
| 3 | 11/15(6:00- 9:00) | 914.3 |
| 4 | 11/24(6:00- 9:00) | 874.2 |
| 5 | 11/16(6:00- 9:00) | 857.8 |

| SITE | NONMETHANE HYDROCARBON | |
|------|------------------------|-------|
| | 3-HOUR (6-9AM) | 023 |
| 1 | 11/25(6:00- 9:00) | 197.6 |
| 2 | 11/ 7(6:00- 9:00) | 184.3 |
| 3 | 11/26(6:00- 9:00) | 154.9 |
| 4 | 11/27(6:00- 9:00) | 132.7 |
| 5 | 11/ 8(6:00- 9:00) | 94.8 |

TABLE VI. THE FIVE MAXIMUM INDEPENDENT SLIDING AVERAGES FOR NOV 1-30
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

| SITE | 0700Z | |
|------|--------------------|-------|
| | 1-HOUR | 023 |
| 1 | 11/27(11:50-12:50) | 106.1 |
| 2 | 11/ 2(11:40-12:40) | 107.3 |
| 3 | 11/25(14:20-15:20) | 107.0 |
| 4 | 11/27(12:50-13:50) | 106.5 |
| 5 | 11/27(12:05-13:05) | 106.0 |
| 1 | 11/18(13:20-14:20) | 64.6 |
| 2 | 11/21(12:55-13:55) | 63.0 |
| 3 | 11/18(9:35-10:35) | 61.5 |
| 4 | 11/18(14:40-15:40) | 61.4 |
| 5 | 11/21(13:10-14:10) | 61.4 |

| SITE | CARBON MONOXIDE | |
|------|--------------------|---------|
| | 1-HOUR | 023 |
| 1 | 11/14(11:50-12:50) | 1353.0 |
| 2 | 11/14(13:20-14:20) | 1189.0 |
| 3 | 11/ 5(16:30-17:30) | 1039.7 |
| 4 | 11/ 9(13:10-14:10) | 1029.0 |
| 5 | 11/ 5(8:00- 9:00) | 993.0 |
| 1 | 11/14(15:25-16:25) | 14563.1 |
| 2 | 11/14(16:30-17:30) | 14432.9 |
| 3 | 11/14(17:35-18:35) | 14205.4 |
| 4 | 11/14(19:05-20:05) | 14100.6 |
| 5 | 11/14(20:15-21:15) | 13888.1 |

| SITE | CARBON MONOXIDE | |
|------|--------------------|---------|
| | 8-HOUR | 023 |
| 1 | 11/ 6(15:50-23:50) | 983.1 |
| 2 | 11/ 9(5:50-13:50) | 973.7 |
| 3 | 11/ 6(15:50-23:50) | 975.9 |
| 4 | 11/ 6(2:50-10:50) | 973.5 |
| 5 | 11/ 7(18:50- 2:50) | 957.2 |
| 1 | 11/14(14:55-22:55) | 14098.2 |
| 2 | 11/14(23:55- 7:55) | 12922.6 |
| 3 | 11/15(23:55- 7:55) | 10083.2 |
| 4 | 11/16(8:55-16:55) | 9579.4 |
| 5 | 11/16(17:55- 1:55) | 9255.1 |

TABLE VI. THE FIVE MAXIMUM AVERAGES FOR NOV 1-30
(UNITS OF CONCENTRATIONS-MICROGRAMS PER CUBIC METER)

| SITE | 020 | | | PARTICULATE
24-HOUR | | | 021 | | | 022 | | |
|------|-------|-------|--|------------------------|-------|------|-----|-------|-------|-----|--|--|
| | | | | | | | | | | | | |
| 1 | 11/29 | 133.0 | | 1 | 11/21 | 71.0 | 1 | 11/28 | 154.0 | | | |
| 2 | 11/23 | 7.0 | | 2 | 11/22 | 27.0 | 2 | 11/29 | 22.0 | | | |
| 3 | 11/25 | 6.0 | | 3 | 11/27 | 12.0 | 3 | 11/27 | 17.0 | | | |
| | | | | 4 | 11/25 | 11.0 | 4 | 11/26 | 10.0 | | | |
| | | | | 5 | 11/1 | 9.0 | 5 | 11/24 | 5.0 | | | |

| SITE | 023 | | | 024 | | |
|------|-------|------|--|-----|-------|-------|
| | | | | | | |
| 1 | 11/27 | 26.0 | | 1 | 11/27 | 178.0 |
| 2 | 11/29 | 21.0 | | 2 | 11/29 | 162.0 |
| 3 | 11/1 | 7.0 | | 3 | 11/25 | 11.0 |

TABLE VII

FUNCTIONAL DEPENDENCE OF RECORDED PARAMETERS
UPON WIND DIRECTION

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITROGEN OXIDES(NOx)

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| ONCENTRATION | | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|--------------|-----|----------------|-----|----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| UG/M**3 | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | |
| GT | 600 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 600 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 550 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 500 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 450 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 400 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 350 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 300 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 250 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 200 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 150 | : | | | | | | | | | | | | | | | | : | |
| 0 - | 100 | : | | | | | | | | 1 | | 1 | | | | | | 2 | |
| LT | 50 | : | 29 | 37 | 23 | 122 | 1091 | 1804 | 2498 | 263 | 364 | 225 | 118 | 225 | 596 | 457 | 222 | 138 | 8212 |
| TOTAL | | : | 29 | 37 | 23 | 122 | 1091 | 1804 | 2498 | 263 | 365 | 225 | 119 | 225 | 596 | 457 | 222 | 138 | 8214 |
| MEAN | | | 0. | 2. | 1. | 7. | 2. | 3. | 3. | 2. | 2. | 1. | 2. | 1. | 1. | 2. | 2. | 1. | 2. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITROGEN OXIDES(NOX)

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/M*3
GT 600 | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|-----------------------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| 150 - 600 | : | | | | | | | | | | | | | | | | : |
| 100 - 550 | : | | | | | | | | | | | | | | | | : |
| 150 - 500 | : | | | | | | | | | | | | | | | | : |
| 100 - 450 | : | | | | | | | | | | | | | | | | : |
| 350 - 400 | : | | | | | | | | | | | | | | | | : |
| 300 - 350 | : | | | | | | | | | | | | | | | | : |
| 250 - 300 | : | | | | | | | | | | | | | | | | : |
| 200 - 250 | : | | | | | | | | | | | | | | | | : |
| 150 - 200 | : | | | | | | | | | | | | | | | | : |
| 100 - 150 | : | | | | | | | | | | | | | | | | : |
| 50 - 100 | : | | | | | | | | | | | | | | | | : |
| LT 50 | : | | | | | | | | | | | | | | | | : |
| TOTAL | : | | | | | | | | | | | | | | | | : |
| MEAN | : | | | | | | | | | | | | | | | | : |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITRIC OXIDE(NO)

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|----|-----|----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| CONCENTRATION | | | | | | | | | | | | | | | | | |
| UG/M**3 | | | | | | | | | | | | | | | | | |
| GT 600 | : | | | | | | | | | | | | | | | | : |
| 550 - 600 | : | | | | | | | | | | | | | | | | : |
| 500 - 550 | : | | | | | | | | | | | | | | | | : |
| 450 - 500 | : | | | | | | | | | | | | | | | | : |
| 400 - 450 | : | | | | | | | | | | | | | | | | : |
| 350 - 400 | : | | | | | | | | | | | | | | | | : |
| 300 - 350 | : | | | | | | | | | | | | | | | | : |
| 250 - 300 | : | | | | | | | | | | | | | | | | : |
| 200 - 250 | : | | | | | | | | | | | | | | | | : |
| 150 - 200 | : | | | | | | | | | | | | | | | | : |
| 100 - 150 | : | | | | | | | | | | | | | | | | : |
| 50 - 100 | : | | | | | | | | 1 | | 1 | | | | | | 2 |
| LT 50 | : | 27 | 23 | 23 | 122 | 1085 | 1781 | 2487 | 261 | 360 | 225 | 118 | 221 | 564 | 439 | 221 | 137 : 8094 |
| TOTAL | : | 27 | 23 | 23 | 122 | 1085 | 1781 | 2487 | 261 | 361 | 225 | 119 | 221 | 564 | 439 | 221 | 137 : 8096 |
| MEAN | 0. | 1. | 0. | 4. | 0. | 1. | 1. | 1. | 1. | 1. | 0. | 1. | 1. | 0. | 0. | 0. | 1. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITRIC OXIDE(NO)

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| CONCENTRATION | | | | | | | | | | | | | | | | | |
| UG/M**3 | | | | | | | | | | | | | | | | | |
| GT 600 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 550 - 600 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 500 - 550 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 450 - 500 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 400 - 450 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 350 - 400 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 300 - 350 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 250 - 300 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 200 - 250 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 150 - 200 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 100 - 150 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 50 - 100 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| LT 50 | 36 | 76 | 86 | 163 | 225 | 264 | 285 | 247 | 303 | 584 | 613 | 166 | 126 | 117 | 137 | 257 | 3685 |
| TOTAL | 37 | 80 | 89 | 167 | 229 | 267 | 286 | 248 | 305 | 584 | 628 | 170 | 128 | 127 | 144 | 264 | 3753 |
| MEAN | 9. | 6. | 7. | 4. | 3. | 3. | 3. | 2. | 2. | 2. | 5. | 6. | 8. | 13. | 13. | 10. | 5. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITROGEN DIOXIDE (NO2)

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| CONCENTRATION | | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|---------------|-----|----------------|-----|----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| UG/M**3 | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | |
| GT | 600 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 550 - | 600 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 500 - | 550 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 450 - | 500 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 400 - | 450 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 350 - | 400 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 300 - | 350 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 250 - | 300 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 200 - | 250 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 150 - | 200 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 100 - | 150 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 50 - | 100 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| LT | 50 | : | 27 | 23 | 23 | 122 | 1084 | 1780 | 2481 | 261 | 362 | 224 | 119 | 221 | 564 | 439 | 221 | 137 | 8088 |
| TOTAL | | : | 27 | 23 | 23 | 122 | 1084 | 1780 | 2481 | 261 | 362 | 224 | 119 | 221 | 564 | 439 | 221 | 137 | 8088 |
| MEAN | | : | 0. | 1. | 1. | 3. | 2. | 2. | 2. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 2. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NITROGEN DIOXIDE (NO2)

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|---|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| CONCENTRATION | | | | | | | | | | | | | | | | | |
| UG/M**3 | | | | | | | | | | | | | | | | | |
| GT 600 | : | | | | | | | | | | | | | | | | : |
| 550 - 600 | : | | | | | | | | | | | | | | | | : |
| 500 - 550 | : | | | | | | | | | | | | | | | | : |
| 450 - 500 | : | | | | | | | | | | | | | | | | : |
| 400 - 450 | : | | | | | | | | | | | | | | | | : |
| 350 - 400 | : | | | | | | | | | | | | | | | | : |
| 300 - 350 | : | | | | | | | | | | | | | | | | : |
| 250 - 300 | : | | | | | | | | | | | | | | | | : |
| 200 - 250 | : | | | | | | | | | | | | | | | | : |
| 150 - 200 | : | | | | | | | | | | | | | | | | : |
| 100 - 150 | : | | | | | | | | | | | | | | | | : |
| 50 - 100 | : | | | | | | | | | | | | | | | | : |
| LT 50 | : | 37 | 80 | 89 | 167 | 229 | 267 | 286 | 248 | 305 | 584 | 628 | 170 | 128 | 127 | 144 | 264 : 3753 |
| TOTAL | : | 37 | 80 | 89 | 167 | 229 | 267 | 286 | 248 | 305 | 584 | 628 | 170 | 128 | 127 | 144 | 264 : 3753 |
| | | 5. | 5. | 5. | 3. | 4. | 3. | 4. | 3. | 2. | 2. | 3. | 4. | 6. | 6. | 8. | 9. 4. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE (SO2)

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/M**3
GT 700 | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|------------------------------------|----------------|-----|----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| 650 - 700 | : | | | | | | | | | | | | | | | | : |
| 600 - 650 | : | | | | | | | | | | | | | | | | : |
| 550 - 600 | : | | | | | | | | | | | | | | | | : |
| 500 - 550 | : | | | | | | | | | | | | | | | | : |
| 450 - 500 | : | | | | | | | | | | | | | | | | : |
| 400 - 450 | : | | | | | | | | | | | | | | | | : |
| 350 - 400 | : | | | | | | | | | | | | | | | | : |
| 300 - 350 | : | | | | | | | | | | | | | | | | : |
| 250 - 300 | : | | | | | | | | | | | | | | | | : |
| 200 - 250 | : | | | | | | | | | | | | | | | | : |
| 150 - 200 | : | | | | | | | | | | | | | | | | : |
| 100 - 150 | : | | | | | | | | | | | | | | | | : |
| 50 - 100 | : | | | | | | | | | | | | | | | | : |
| LT 50 | : | 28 | 34 | 22 | 119 | 1052 | 1724 | 2409 | 251 | 355 | 224 | 120 | 218 | 572 | 441 | 215 | 132 : 7916 |
| TOTAL | : | 28 | 34 | 22 | 119 | 1052 | 1724 | 2409 | 251 | 355 | 224 | 120 | 218 | 572 | 441 | 215 | 132 : 7916 |
| MEAN | : | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(SO2)

TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30//4)

		WIND DIRECTION

| | | WIND DIRECTION | | | | | | | | | | | | | | | | | |
|---------------|---------|----------------|-----|----|-----|-----|------|------|------|-----|-----|----|-----|----|-----|-----|-----|-------|--|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | |
| CONCENTRATION | UG/M**3 | | | | | | | | | | | | | | | | | | |
| GT 700 | : | | | | | | | | | | | | | | | | | | |
| 650 - 700 | : | | | | | | | | | | | | | | | | | | |
| 600 - 650 | : | | | | | | | | | | | | | | | | | | |
| 550 - 600 | : | | | | | | | | | | | | | | | | | | |
| 500 - 550 | : | | | | | | | | | | | | | | | | | | |
| 450 - 500 | : | | | | | | | | | | | | | | | | | | |
| 400 - 450 | : | | | | | | | | | | | | | | | | | | |
| 350 - 400 | : | | | | | | | | | | | | | | | | | | |
| 300 - 350 | : | | | | | | | | | | | | | | | | | | |
| 250 - 300 | : | | | | | | | | | | | | | | | | | | |
| 200 - 250 | : | | | | | | | | | | | | | | | | | | |
| 150 - 200 | : | | | | | | | | | | | | | | | | | | |
| 100 - 150 | : | | | | | | | | | | | | | | | | | | |
| 50 - 100 | : | | | | | | | | | | | | | | | | | | |
| LT 50 | : | 115 | 115 | 40 | 54 | 294 | 1640 | 1393 | 1204 | 586 | 216 | 93 | 66 | 94 | 143 | 429 | 988 | 7470 | |
| TOTAL | : | 115 | 115 | 40 | 54 | 294 | 1640 | 1393 | 1204 | 586 | 216 | 93 | 66 | 94 | 143 | 429 | 988 | 7470 | |
| MEAN | : | 1. | 1. | 1. | 3. | 1. | 1. | 1. | 1. | 1. | 2. | 2. | 1. | 1. | 1. | 1. | 1. | 1. | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(SO2)

TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/M**3
GT 700 | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|------------------------------------|----------------|-----|-----|-----|-----|------|------|-----|-----|-----|----|-----|-----|-----|-----|-----|------------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| 650 - 700 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 600 - 650 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 550 - 600 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 500 - 550 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 450 - 500 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 400 - 450 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 350 - 400 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 300 - 350 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 250 - 300 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 200 - 250 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 150 - 200 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 100 - 150 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 50 - 100 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| LT 50 | : | 49 | 120 | 234 | 537 | 1616 | 3295 | 428 | 153 | 72 | 82 | 130 | 323 | 692 | 340 | 91 | 106 : 8278 |
| TOTAL | : | 49 | 120 | 234 | 537 | 1616 | 3295 | 428 | 153 | 72 | 82 | 130 | 323 | 692 | 340 | 91 | 106 : 8278 |
| MEAN | 3. | 3. | 3. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 3. | 2. | 2. |

CORPORATION

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(302)

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/M**3
GT 700 : | WIND DIRECTION | | | | | | | | | | | NNW | NW | NNW | TOTAL |
|--------------------------------------|----------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | |
| 650 - 700 : | | | | | | | | | | | | | | | : |
| 600 - 650 : | | | | | | | | | | | | | | | : |
| 550 - 600 : | | | | | | | | | | | | | | | : |
| 500 - 550 : | | | | | | | | | | | | | | | : |
| 450 - 500 : | | | | | | | | | | | | | | | : |
| 400 - 450 : | | | | | | | | | | | | | | | : |
| 350 - 400 : | | | | | | | | | | | | | | | : |
| 300 - 350 : | | | | | | | | | | | | | | | : |
| 250 - 300 : | | | | | | | | | | | | | | | : |
| 200 - 250 : | | | | | | | | | | | | | | | : |
| 150 - 200 : | | | | | | | | | | | | | | | : |
| 100 - 150 : | | | | | | | | | | | | | | | : |
| 50 - 100 : | | | | | | | | | | | | | | | : |
| LT 50 : | 38 | 83 | 95 | 167 | 223 | 266 | 287 | 252 | 307 | 611 | 636 | 173 | 124 | 124 | 334 : 3867 |
| TOTAL : | 38 | 83 | 95 | 167 | 223 | 266 | 287 | 252 | 307 | 611 | 636 | 173 | 124 | 124 | 334 : 3867 |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

SULFUR DIOXIDE(SO2)

TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

N NNE NE ENE E ESE SE SSE S SSW SW W WNW NW NNW TOTAL

CONCENTRATION

UG/M**3

GT 700 :

650 - 700 :

600 - 650 :

550 - 600 :

500 - 550 :

450 - 500 :

400 - 450 :

350 - 400 :

300 - 350 :

250 - 300 :

200 - 250 :

150 - 200 :

100 - 150 :

50 - 100 :

LT 50

TOTAL

MEAN

: 27 72 301 1320 1676 630 253 573 558 317 192 219 356 270 101 52 : 6917

: 27 72 301 1320 1676 630 253 573 558 317 192 219 356 270 101 52 : 6917

.....

0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (H2S)

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|---|-----|----|-----|----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| CONCENTRATION | | | | | | | | | | | | | | | | | |
| UG/M**3 | | | | | | | | | | | | | | | | | |
| GT 140 | : | | | | | | | | | | | | | | | | : |
| 130 - 140 | : | | | | | | | | | | | | | | | | : |
| 120 - 130 | : | | | | | | | | | | | | | | | | : |
| 110 - 120 | : | | | | | | | | | | | | | | | | : |
| 100 - 110 | : | | | | | | | | | | | | | | | | : |
| 90 - 100 | : | | | | | | | | | | | | | | | | : |
| 80 - 90 | : | | | | | | | | | | | | | | | | : |
| 70 - 80 | : | | | | | | | | | | | | | | | | : |
| 60 - 70 | : | | | | | | | | | | | | | | | | : |
| 50 - 60 | : | | | | | | | | | | | | | | | | : |
| 40 - 50 | : | | | | | | | | | | | | | | | | : |
| 30 - 40 | : | | | | | | | | | | | | | | | | : |
| 20 - 30 | : | | | | | | | | | | | | | | | | : |
| 10 - 20 | : | | | | | | | | | | | | | | | | : |
| | | | | | | | | | 2 | 1 | | | | | | | 3 |
| LT 10 | : | 28 | 34 | 22 | 84 | 1050 | 1719 | 2402 | 247 | 356 | 224 | 120 | 220 | 572 | 442 | 214 | 132 : 7866 |
| TOTAL | : | 28 | 34 | 22 | 84 | 1050 | 1721 | 2403 | 247 | 356 | 224 | 120 | 220 | 572 | 442 | 214 | 132 : 7869 |
| MEAN | : | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (H₂S)

TRAILER NO. - 21 PERIOD (11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/M**3
GT 140 | | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|------------------------------------|---|----------------|-----|----|-----|-----|------|------|------|-----|-----|----|-----|----|-----|-----|-----|--------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| 130 - 140 | : | | | | | | | 1 | | | 1 | | | | | | | : |
| 120 - 130 | : | | | | | | | 3 | 1 | | 0 | | | | | | | : |
| 110 - 120 | : | | | | | | | | | | | | | | | | | : |
| 100 - 110 | : | | | | | | | | | | | | | | | | | : |
| 90 - 100 | : | | | | | | | | | | | | | | | | | : |
| 80 - 90 | : | | | | | | 3 | 1 | 0 | 1 | 0 | | | | | | | : |
| 70 - 80 | : | | | | | | 2 | 2 | 1 | 1 | 0 | | | | | | | : |
| 60 - 70 | : | | | | | | 5 | 1 | 3 | 2 | 1 | | | | | | | : |
| 50 - 60 | : | | | | | | 10 | 7 | 4 | 0 | 0 | | | | | | | : |
| 40 - 50 | : | | | | | 1 | 17 | 7 | 6 | 2 | 1 | | | | | | | : |
| 30 - 40 | : | | | | | 2 | 15 | 9 | 10 | 2 | 3 | | | | | | | : |
| 20 - 30 | : | | | | | 3 | 17 | 7 | 11 | 4 | 0 | 1 | | | | | | : |
| 10 - 20 | : | | | | 1 | 2 | 10 | 15 | 4 | 3 | 3 | 0 | 1 | | | | | : |
| LT 12 | : | 96 | 100 | 43 | 49 | 283 | 1411 | 1168 | 977 | 446 | 167 | 78 | 58 | 88 | 109 | 228 | 603 | : 5904 |
| TOTAL | : | 96 | 100 | 43 | 50 | 291 | 1490 | 1221 | 1017 | 461 | 176 | 79 | 59 | 88 | 109 | 228 | 603 | : 6111 |
| MEAN | | 0. | 0. | 0. | 0. | 1. | 2. | 2. | 2. | 1. | 2. | 0. | 0. | 0. | 0. | 0. | 0. | 2. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (H₂S)

TRAILER NO. - 22 PERIOD (11/ 1/74 TO 11/30/74)

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|----|-----|-----|-----|-----|------|------|-----|-----|-----|----|-----|-----|-----|-----|-----|------------|
| CONCENTRATION | | | | | | | | | | | | | | | | | |
| US/M**3 | | | | | | | | | | | | | | | | | |
| GT 140 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 130 - 140 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 120 - 130 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 110 - 120 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 100 - 110 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 90 - 100 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 80 - 90 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 70 - 80 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 60 - 70 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 50 - 60 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 40 - 50 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 30 - 40 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 20 - 30 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| 10 - 20 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| LT 10 | : | 49 | 119 | 234 | 537 | 1616 | 3295 | 428 | 165 | 72 | 82 | 130 | 323 | 692 | 340 | 91 | 106 : 8279 |
| TOTAL | : | 49 | 119 | 234 | 537 | 1616 | 3295 | 428 | 165 | 72 | 82 | 130 | 323 | 692 | 340 | 91 | 106 : 8279 |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (H₂S)

TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|---|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| CONCENTRATION | | | | | | | | | | | | | | | | | |
| UG/H*3 | | | | | | | | | | | | | | | | | |
| GT 140 | : | | | | | | | | | | | | | | | | : |
| 130 - 140 | : | | | | | | | | | | | | | | | | : |
| 120 - 130 | : | | | | | | | | | | | | | | | | : |
| 110 - 120 | : | | | | | | | | | | | | | | | | : |
| 100 - 110 | : | | | | | | | | | | | | | | | | : |
| 90 - 100 | : | | | | | | | | | | | | | | | | : |
| 80 - 90 | : | | | | | | | | | | | | | | | | : |
| 70 - 80 | : | | | | | | | | | | | | | | | | : |
| 60 - 70 | : | | | | | | | | | | | | | | | | : |
| 50 - 60 | : | | | | | | | | | | | | | | | | : |
| 40 - 50 | : | | | | | | | | | | | | | | | | : |
| 30 - 40 | : | | | | | | | | | | | | | | | | : |
| 20 - 30 | : | | | | | | | | | | | | | | | | : |
| 10 - 20 | : | | | | | | | | | | | | | | | | : |
| LT 10 | : | 38 | 83 | 95 | 167 | 229 | 266 | 287 | 252 | 307 | 616 | 637 | 173 | 129 | 127 | 143 | 355 : 3904 |
| TOTAL | : | 38 | 83 | 95 | 167 | 229 | 266 | 287 | 252 | 307 | 616 | 637 | 173 | 129 | 127 | 143 | 355 : 3904 |
| MEAN | : | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

HYDROGEN SULFIDE (H₂S)

TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| CONCENTRATION | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|-----|---|-----|----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| UG/M*3 | | | | | | | | | | | | | | | | | | |
| GT 140 | | : | | | | | | | | | | | | | | | | : |
| 130 - | 140 | : | | | | | | | | | | | | | | | | : |
| 120 - | 130 | : | | | | | | | | | | | | | | | | : |
| 110 - | 120 | : | | | | | | | | | | | | | | | | : |
| 100 - | 110 | : | | | | | | | | | | | | | | | | : |
| 90 - | 100 | : | | | | | | | | | | | | | | | | : |
| 80 - | 90 | : | | | | | | | | | | | | | | | | : |
| 70 - | 80 | : | | | | | | | | | | | | | | | | : |
| 60 - | 70 | : | | | | | | | | | | | | | | | | : |
| 50 - | 60 | : | | | | | | | | | | | | | | | | : |
| 40 - | 50 | : | | | | | | | | | | | | | | | | : |
| 30 - | 40 | : | | | | | | | | | | | | | | | | : |
| 20 - | 30 | : | | | | | | | | | | | | | | | | : |
| 10 - | 20 | : | | | | | | | | | | | | | | | | : |
| | | | | | | | | | | | | | | | 6 | 3 | | 9 |
| LT | 10 | : | 31 | 78 | 324 | 1348 | 1693 | 645 | 263 | 580 | 569 | 358 | 235 | 245 | 387 | 293 | 106 | 52 : 7207 |
| TOTAL | | : | 31 | 78 | 324 | 1348 | 1693 | 645 | 263 | 580 | 569 | 358 | 235 | 245 | 393 | 296 | 106 | 52 : 7216 |
| MEAN | | : | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

TOTAL HYDROCARBONS

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION | | WIND DIRECTION | | | | | | | | | | | | | | | | NNW | TOTAL |
|---------------|---|--|-----|----|-----|-----|------|------|-----|-----|-----|----|-----|-----|-----|-----|-----------|-----|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | | | |
| UG/M**3 | : | | | | | | | | | | | | | | | | : | | |
| GT 5000 | : | | | | | | | | | | | | | | | | : | | |
| 5400 - 5000 | : | | | | | | | | | | | | | | | | : | | |
| 4800 - 5400 | : | | | | | | | | | | | | | | | | : | | |
| 4200 - 4800 | : | | | | | | | | | | | | | | | | : | | |
| 3600 - 4200 | : | | | | | | | | | | | | | | | | : | | |
| 3000 - 3600 | : | | | | | | | | | | | | | | | | : | | |
| 2400 - 3000 | : | | | | | | | | | | | | | | | | : | | |
| 1800 - 2400 | : | | | | | | | | | | | | | | | | : | | |
| 1200 - 1800 | : | | | | 1 | 4 | 4 | 3 | 1 | | | | | | | 1 | 14 | | |
| 600 - 1200 | : | | 4 | 11 | 28 | 391 | 774 | 1207 | 99 | 157 | 104 | 63 | 117 | 188 | 145 | 84 | 46 : 3418 | | |
| LT 600 | : | | 1 | 4 | 12 | 182 | 346 | 527 | 44 | 68 | 52 | 28 | 52 | 85 | 64 | 36 | 21 : 1522 | | |
| TOTAL | : | 0 | 5 | 15 | 41 | 577 | 1124 | 1737 | 144 | 225 | 156 | 91 | 169 | 273 | 209 | 120 | 68 : 4954 | | |
| | | | | | | | | | | | | | | | | | | | |
| MEAN | | 0. 728. 543. 617. 625. 548. 640. 609. 599. 598. 619. 602. 609. 627. 617. 615. 631. | | | | | | | | | | | | | | | | | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

TOTAL HYDROCARBONS

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/4**3
GT 30000 | N | NNE | NE | ENE | E | ESE | SE | SSE | WIND DIRECTION | | | | W | WNW | NW | NNW | TOTAL |
|--------------------------------------|----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-------|
| | | | | | | | | | S | SSW | SW | WSW | | | | | |
| 27000 - 30000 | 4 | | | 14 | 15 | 2 | 8 | 20 | 36 | 31 | 14 | | 3 | 1 | 2 | 2 | 152 |
| 24000 - 27000 | 0 | | 1 | 4 | 2 | 3 | 0 | 1 | 4 | 1 | 5 | 3 | 0 | 0 | 0 | 0 | 24 |
| 21000 - 24000 | 0 | | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 18000 - 21000 | 2 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 3 |
| 15000 - 18000 | 6 | 11 | 15 | 24 | 18 | 36 | 35 | 32 | 22 | 34 | 52 | 18 | 10 | 19 | 22 | 13 | 367 |
| 12000 - 15000 | 5 | 11 | 18 | 18 | 26 | 23 | 25 | 20 | 22 | 54 | 76 | 15 | 20 | 22 | 26 | 40 | 421 |
| 9000 - 12000 | 0 | 4 | 6 | 4 | 6 | 3 | 3 | 4 | 2 | 15 | 17 | 1 | 4 | 2 | 1 | 12 | 84 |
| 6000 - 9000 | 1 | 1 | 3 | 4 | 11 | 2 | 4 | 7 | 14 | 29 | 26 | 9 | 6 | 5 | 2 | 12 | 136 |
| 3000 - 6000 | 1 | 7 | 5 | 11 | 8 | 13 | 9 | 7 | 6 | 18 | 35 | 7 | 8 | 10 | 9 | 10 | 164 |
| LT 3000 | 5 | 13 | 13 | 30 | 29 | 27 | 21 | 32 | 35 | 53 | 79 | 13 | 17 | 28 | 31 | 49 | 475 |
| TOTAL | 9 | 23 | 22 | 50 | 85 | 114 | 167 | 99 | 136 | 182 | 288 | 49 | 40 | 29 | 43 | 87 | 1423 |
| MEAN/1000 | 27 | 74 | 63 | 159 | 201 | 223 | 272 | 224 | 281 | 417 | 592 | 116 | 108 | 117 | 136 | 225 | 3255 |
| | 9. | 10. | 10. | 11. | 9. | 7. | 7. | 10. | 10. | 9. | 7. | 8. | 9. | 10. | 9. | 7. | 8. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

ETHANE (CH₄)

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|---------------|----------------|-----|----|-----|----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| UG/M*3 | : | | | | | | | | | | | | | | | | : |
| GT 5000 | : | | | | | | | | | | | | | | | | : |
| 5400 - 5000 | : | | | | | | | | | | | | | | | | : |
| 4800 - 5400 | : | | | | | | | | | | | | | | | | : |
| 4200 - 4800 | : | | | | | | | | | | | | | | | | : |
| 3600 - 4200 | : | | | | | | | | | | | | | | | | : |
| 3000 - 3600 | : | | | | | | | | | | | | | | | | : |
| 2400 - 3000 | : | | | | | | | | | | | | | | | | : |
| 1800 - 2400 | : | | | | | | | | | | | | | | | | : |
| 1200 - 1800 | : | | | | | | | 1 | 1 | | | | | | | | : |
| 600 - 1200 | : | | | | | | | 99 | 157 | 104 | 63 | 117 | 187 | 144 | 84 | 46 | : 3423 |
| LT 600 | : | | | | | | | 44 | 67 | 52 | 28 | 51 | 84 | 64 | 36 | 21 | : 1521 |
| TOTAL | : | 0 | 5 | 15 | 41 | 577 | 1124 | 1736 | 144 | 224 | 156 | 91 | 168 | 271 | 208 | 120 | 67 : 4947 |
| MEAN | | | | | | | | | | | | | | | | | |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

METHANE(CH4)

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/M*3
GT 30000 | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL | |
|-------------------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| 27000 - 30000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 24000 - 27000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 21000 - 24000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 18000 - 21000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 15000 - 18000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 12000 - 15000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 9000 - 12000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 6000 - 9000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 3000 - 6000 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| LT 3000 | : | 19 | 61 | 75 | 150 | 192 | 203 | 254 | 217 | 269 | 397 | 499 | 104 | 104 | 117 | 125 | 188 | 2974 |
| TOTAL | : | 19 | 61 | 75 | 150 | 192 | 203 | 254 | 217 | 269 | 397 | 499 | 104 | 104 | 117 | 125 | 188 | 2974 |
| MEAN | | 72. | 64. | 67. | 69. | 69. | 72. | 71. | 70. | 67. | 68. | 67. | 71. | 73. | 73. | 72. | 75. | 70. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NON-METHANE HYDROCARBONS

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| CONCENTRATION | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | |
|---------------|--|---|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|
| UG/M**3 | | | | | | | | | | | | | | | | | | | |
| GT 6000 | | : | | | | | | | | | | | | | | | | : | |
| 5400 - 6200 | | : | | | | | | | | | | | | | | | | : | |
| 4800 - 5400 | | : | | | | | | | | | | | | | | | | : | |
| 4200 - 4800 | | : | | | | | | | | | | | | | | | | : | |
| 3600 - 4200 | | : | | | | | | | | | | | | | | | | : | |
| 3000 - 3600 | | : | | | | | | | | | | | | | | | | : | |
| 2400 - 3000 | | : | | | | | | | | | | | | | | | | : | |
| 1800 - 2400 | | : | | | | | | | | | | | | | | | | : | |
| 1200 - 1800 | | : | | | | | | | | | | | | | | | | : | |
| 600 - 1200 | | : | | | | | | | | | | | | | | | | : | |
| | | | | | | | 1 | 4 | | | | | | | | 2 | 7 | | |
| LT 600 | | : | 5 | 15 | 41 | 578 | 1123 | 1731 | 144 | 224 | 155 | 91 | 168 | 271 | 208 | 120 | 65 | : 4939 | |
| TOTAL | | : | 0 | 5 | 15 | 41 | 578 | 1124 | 1735 | 144 | 224 | 155 | 91 | 168 | 271 | 208 | 120 | 67 : 4946 | |
| MEAN | | : | 0. | 65. | 38. | 49. | 49. | 55. | 63. | 48. | 46. | 50. | 60. | 49. | 46. | 52. | 36. | 52. | 55. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

NON-METHANE HYDROCARBONS

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/M**3
GT 30000 | WIND DIRECTION | | | | | | | | | | | NW | NNW | TOTAL |
|--------------------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW |
| 27000 - 30000 | 3 | | | 11 | 12 | 1 | 6 | 18 | 25 | 17 | 11 | 2 | 2 | 111 |
| 24000 - 27000 | 1 | 1 | 1 | 7 | 5 | 4 | 2 | 3 | 15 | 15 | 8 | 3 | 1 | 65 |
| 21000 - 24000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| 18000 - 21000 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 4 |
| 15000 - 18000 | 3 | 6 | 12 | 23 | 17 | 34 | 32 | 27 | 20 | 29 | 38 | 13 | 7 | 294 |
| 12000 - 15000 | 4 | 10 | 16 | 17 | 17 | 12 | 16 | 18 | 15 | 30 | 45 | 17 | 20 | 328 |
| 9000 - 12000 | 0 | 2 | 6 | 1 | 10 | 10 | 12 | 9 | 9 | 33 | 30 | 3 | 4 | 147 |
| 6000 - 9000 | 1 | 3 | 2 | 5 | 12 | 4 | 3 | 7 | 10 | 30 | 33 | 7 | 4 | 137 |
| 3000 - 6000 | 1 | 3 | 3 | 7 | 7 | 4 | 2 | 1 | 8 | 13 | 20 | 4 | 8 | 96 |
| LT 3000 | 2 | 12 | 12 | 26 | 25 | 31 | 22 | 30 | 21 | 49 | 79 | 12 | 16 | 418 |
| TOTAL | 8 | 19 | 21 | 50 | 85 | 107 | 167 | 103 | 142 | 178 | 239 | 43 | 41 | 1372 |
| MEAN/100 | 19 | 59 | 73 | 147 | 191 | 207 | 252 | 218 | 269 | 394 | 503 | 103 | 103 | 2977 |
| | 8. | 12. | 10. | 11. | 9. | 7. | 6. | 9. | 9. | 8. | 7. | 8. | 9. | 8. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

CARBON MONOXIDE(CO)

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| CONCENTRATION
UG/M**3
GT 2000 | | N | NNE | NE | ENE | E | ESE | SE | SSE | WIND DIRECTION | | | | | | | | WNW | NW | NNW | TOTAL |
|-------------------------------------|---|---|-----|----|-----|-----|------|------|-----|----------------|-----|-----|-----|-----|-----|----|-----|-----|----|-----|-------|
| | | | | | | | | | | S | SSW | SW | WSW | W | WNW | NW | NNW | | | | |
| 1800 - 2000 | : | | | | | | | | 1 | 1 | | | | | | | | | | : | 2 |
| 1600 - 1800 | : | | | | | | | | 0 | 0 | | | | | | | | | | : | 0 |
| 1400 - 1600 | : | | | | | | | | 0 | 0 | | | | | | | | | | : | 0 |
| 1200 - 1400 | : | | | | | | | 1 | 2 | 0 | 1 | 0 | 1 | | | 1 | | | | : | 2 |
| 1000 - 1200 | : | | | | | | 3 | 4 | 5 | 4 | 2 | 1 | 0 | 5 | 5 | 0 | | | | : | 29 |
| 800 - 1000 | : | 3 | 2 | 3 | 81 | 175 | 196 | 29 | 51 | 28 | 14 | 16 | 20 | 29 | 29 | 6 | 4 | | | : | 657 |
| 600 - 800 | : | 0 | 0 | 3 | 5 | 27 | 9 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | | | : | 51 |
| 400 - 600 | : | 2 | 8 | 12 | 240 | 456 | 787 | 41 | 78 | 54 | 32 | 61 | 136 | 100 | 75 | 44 | | | | : | 2126 |
| 200 - 400 | : | 0 | 3 | 13 | 163 | 224 | 257 | 29 | 33 | 33 | 22 | 45 | 28 | 18 | 4 | 1 | | | | : | 873 |
| LT 200 | : | 0 | 5 | 25 | 324 | 445 | 511 | 57 | 65 | 65 | 43 | 89 | 58 | 35 | 10 | 1 | | | | : | 1733 |
| TOTAL | : | 0 | 5 | 18 | 56 | 816 | 1331 | 1766 | 165 | 231 | 183 | 113 | 217 | 248 | 182 | 97 | 51 | | | : | 5479 |
| MEAN | | | | | | | | | | | | | | | | | | | | | |

MEAN

0. 760. 373. 271. 315. 363. 373. 397. 423. 352. 327. 296. 395. 446. 476. 505. 366.

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

CARBON MONOXIDE(CO)

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| CONCENTRATION | | | | | | | | | | | | | | | | | |
| UG/****3 | | | | | | | | | | | | | | | | | |
| GT 2000 | 23 | 58 | 69 | 135 | 171 | 187 | 227 | 194 | 250 | 452 | 427 | 95 | 90 | 84 | 99 | 189 | 2750 |
| 1800 - 2000 | 0 | 3 | 3 | 2 | 1 | 6 | 1 | 0 | 0 | 5 | 8 | 1 | 2 | 2 | 3 | 16 | 53 |
| 1600 - 1800 | 1 | 1 | 2 | 1 | 2 | 8 | 1 | 0 | 1 | 4 | 2 | 2 | 2 | 1 | 1 | 6 | 35 |
| 1400 - 1600 | 0 | 1 | 0 | 5 | 9 | 15 | 7 | 9 | 2 | 5 | 4 | 10 | 2 | 2 | 2 | 2 | 75 |
| 1200 - 1400 | 3 | 4 | 3 | 2 | 12 | 10 | 10 | 9 | 7 | 9 | 26 | 5 | 5 | 4 | 9 | 4 | 122 |
| 1000 - 1200 | 0 | 1 | 1 | 1 | 7 | 8 | 4 | 5 | 2 | 16 | 37 | 27 | 2 | 1 | 0 | 0 | 112 |
| 800 - 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 600 - 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 400 - 600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 200 - 400 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 5 |
| LT 200 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 0 | 0 | 75 | 151 | 0 | 0 | 75 | 75 | 0 | 451 |
| TOTAL | 27 | 68 | 78 | 146 | 202 | 234 | 326 | 217 | 262 | 567 | 656 | 140 | 103 | 170 | 190 | 218 | 3604 |
| MEAN/100 | 45. | 52. | 53. | 52. | 42. | 38. | 28. | 41. | 39. | 44. | 28. | 32. | 30. | 18. | 19. | 32. | 35. |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

0700E(53)

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

WIND DIRECTION

| CONCENTRATION | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|---------------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| UG/M**3 | | | | | | | | | | | | | | | | | | |
| GT 150 | | | | | | | | | | | | | | | | | | : |
| 150 - | 160 | | | | | | | | | | | | | | | | | : |
| 140 - | 150 | | | | | | | | | | | | | | | | | : |
| 130 - | 140 | | | | | | | | | | | | | | | | | : |
| 120 - | 130 | | | | | | | | | | | | | | | | | : |
| 110 - | 120 | | | | | | 1 | 1 | | 1 | | | | | | | | : |
| 100 - | 110 | 4 | | | 1 | 30 | 17 | 10 | 13 | 11 | 13 | 4 | 4 | 21 | 18 | 9 | 11 | : |
| 90 - | 100 | 6 | 5 | 1 | 3 | 3 | 6 | 16 | 30 | 79 | 48 | 23 | 40 | 46 | 8 | 22 | 37 | : |
| 80 - | 90 | 0 | 2 | 3 | 10 | 39 | 25 | 65 | 46 | 77 | 65 | 44 | 78 | 79 | 58 | 56 | 24 | : |
| 70 - | 80 | 7 | 6 | 5 | 21 | 47 | 59 | 99 | 32 | 21 | 10 | 5 | 13 | 37 | 44 | 17 | 11 | : |
| 60 - | 70 | 1 | 1 | 3 | 10 | 116 | 228 | 424 | 3 | 20 | 4 | 0 | 1 | 88 | 55 | 9 | 1 | : |
| 50 - | 60 | 0 | 0 | 3 | 5 | 164 | 309 | 464 | 6 | 5 | 1 | 0 | 1 | 42 | 41 | 10 | 0 | : |
| LT | 50 | 2 | 2 | 3 | 66 | 802 | 1342 | 1577 | 84 | 51 | 11 | 2 | 13 | 148 | 145 | 50 | 10 | : |
| TOTAL | | 18 | 16 | 18 | 116 | 1201 | 1987 | 2656 | 214 | 265 | 153 | 78 | 150 | 461 | 369 | 173 | 94 | : |
| MEAN | | 88. | 72. | 60. | 35. | 31. | 29. | 32. | 58. | 73. | 84. | 88. | 82. | 57. | 51. | 64. | 83. | : |

NUMBER OF FIVE MINUTE SAMPLES BY WIND DIRECTION AND LEVEL

OZONE(03)

TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| CONCENTRATION
UG/M ³
GT 16W | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|--|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| 150 - 160 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 140 - 150 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 130 - 140 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 120 - 130 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 110 - 120 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 100 - 110 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 90 - 100 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 80 - 90 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 70 - 80 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 60 - 70 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| 50 - 60 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
| LT 50 | : | 18 | 49 | 52 | 115 | 149 | 140 | 163 | 177 | 211 | 267 | 281 | 48 | 33 | 43 | 30 | 48 : 1822 | |
| TOTAL | : | 18 | 46 | 52 | 115 | 150 | 145 | 167 | 182 | 257 | 433 | 355 | 56 | 36 | 43 | 30 | 48 : 2139 | |
| MEAN | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| | 18. | 24. | 23. | 24. | 26. | 30. | 31. | 28. | 34. | 40. | 32. | 29. | 28. | 23. | 21. | 23. | 31. | |

TABLE VIII

DIURNAL VARIATION OF VARIOUS RECORDED PARAMETERS

DIURNAL VARIATION OF NITROGEN OXIDES (UG/M**3)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

DAY

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | 10 | 16 | 14 | 9 | 11 | * | 11 | 10 | * | 11 | 10 | 23 | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | 11 | 12 | 12 | 11 | 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | 12 | 39 | 47 | 45 | 40 | 43 | 44 | 45 | 41 | 37 | 22 | 12 | 17 | 22 | 23 | 25 | 26 | 30 | 29 | 28 | 28 | 11 | 11 | 13 | 13 |
| 11 | 39 | 60 | 47 | 30 | 34 | 29 | 20 | 29 | 20 | 24 | 26 | 10 | * | * | * | * | * | * | * | * | * | 34 | 30 | 34 | 34 |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | 11 | 10 | 9 | 9 | 9 | * | 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | 13 | 16 | 18 | 20 | 27 | 20 | 19 | 9 | 9 | 18 | 18 | * | * | * | * | 10 | 11 | 16 | 18 | 19 | 19 | 21 | 10 | 12 | 12 |
| 27 | 21 | 16 | 18 | 20 | 27 | 20 | 19 | 9 | 9 | 18 | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | 9 | 9 | 11 | 10 | 10 | 10 | 12 | 12 | 11 | 11 | 9 | * | * | * | * | * | * | 11 | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | 11 | 13 | 9 | 9 | * | * | * | * | * | * | * | * | 9 | * | * | * | * | * |
| MEAN | 5. | 5. | 5. | 5. | 7. | 7. | 7. | 7. | 7. | 6. | 5. | 2. | 2. | 3. | 3. | 2. | 2. | 4. | 4. | 4. | 4. | 5. | 5. | 5. | 5. |

TOTAL NUMBER OF OBSERVATIONS = 8211 MEAN = 5.

* REPORTS A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF NITROGEN OXIDES(U6/M**3)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| | HOUR | | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 10 | * | 14 | 15 | 14 | 13 | 15 | 15 | 13 | 13 | 16 | 19 | 18 | 21 | 14 | 17 | 16 | 17 | 18 | 18 | 20 | 20 | 17 | 13 | 15 | 15. |
| 11 | 14 | 25 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | 24 | 22 | 9 | * | 16 | 15 | 16 | 20 | 22 | 13 | 15 | 24 | 17 | 23 | 17 | 10. |
| 12 | 21 | 21 | 22 | * | * | * | * | * | * | * | * | * | * | 16 | 15 | 16 | 20 | 22 | 24 | 21 | 24 | 20 | 23 | 21 | 23. |
| 13 | * | * | * | * | * | * | * | * | * | 10 | 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | 4. |
| 14 | * | * | * | * | * | * | * | * | * | * | 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | 5. |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3. |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3. |
| 19 | 11 | 11 | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 9 | * | 9 | 10 | 4. |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2. |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2. |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3. |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 6. |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 6. |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 7. |
| 26 | 9 | 9 | 12 | 9 | 10 | 10 | 9 | 10 | 10 | 13 | 13 | * | 10 | * | * | * | 10 | 12 | 17 | * | * | * | * | 9 | 10. |
| 27 | 14 | 11 | 12 | * | 11 | 11 | 11 | 11 | * | 15 | 14 | 10 | * | 9 | * | * | 24 | 12 | * | 12 | * | * | 9 | 11 | 16. |
| 28 | 25 | 27 | 25 | 31 | 35 | 37 | 37 | 43 | 43 | 43 | 34 | 43 | 19 | 21 | 34 | 30 | 21 | 21 | 23 | 24 | 25 | 28 | 28 | 25 | 16. |
| 29 | 23 | 25 | 31 | 25 | 27 | 32 | 32 | 36 | 33 | 41 | 54 | 43 | 22 | 29 | 30 | 27 | 27 | 27 | 29 | 23 | 31 | 34 | 32 | 21 | 32. |
| 30 | 25 | 24 | 31 | 25 | 24 | 25 | 26 | 30 | 26 | 37 | 41 | 38 | * | 14 | 19 | 18 | 15 | 21 | 20 | 27 | 21 | 19 | 31 | 31 | 30. |
| MEAN | 7. | 7. | 7. | 6. | 7. | 7. | 7. | 7. | 7. | 9. | 9. | 8. | 4. | 5. | 7. | 5. | 7. | 7. | 6. | 6. | 6. | 6. | 7. | 7. | 7. |

TOTAL NUMBER OF OBSERVATIONS = 7923 MEAN = 7.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF NITRIC OXIDE (UG/M**3)
TRAJLER NO. - 20 PERIOD (11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | ME |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | 32 | 35 | 41 | 42 | 36 | 40 | 44 | 40 | 39 | 37 | 22 | 12 | 17 | 21 | 23 | 25 | 26 | 24 | 29 | 27 | 28 | 32 | 29 | 30 | 30 |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 2. | 2. | 2. | 2. | 3. | 3. | 3. | 3. | 3. | 3. | 2. | 1. | 1. | 1. | 2. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 2. | 1. | 1. |

TOTAL NUMBER OF OBSERVATIONS = 8092 MEAN = 2.

* REFLECTS A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF NITRIC OXIDE (UG/M**3)
 TRAJLER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 15. |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 15. |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 17. |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 17. |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 21. |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 23. |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3. |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2. |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2. |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1. |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3. |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2. |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3. |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 7. |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 6. |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 20. |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 20. |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 15. |
| MEAN | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 2. | 3. | 4. | 3. | 3. | 3. | 4. | 4. | 4. | 4. | 4. | 4. | 4. |

TOTAL NUMBER OF OBSERVATIONS = 7910 MEAN = 4.

* OBSOBS A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF NITROGEN DIOXIDE (UG/M**3)
TRAILER NO. - 20 PERIOD (11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | ME |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

TOTAL NUMBER OF OBSERVATIONS = 8094 MEAN = 3.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF NITROGEN DIOXIDE (UG/M**3)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 |
| 28 | 11 | 9 | 13 | * | * | * | * | 9 | * | 11 | 10 | 9 | * | 9 | * | * | 10 | 11 | 11 | 11 | 10 | 11 | 13 | 12 | 10 |
| 29 | 11 | 11 | 11 | 14 | 15 | 15 | 14 | 11 | 10 | 13 | 10 | 15 | * | * | 13 | 12 | 11 | 11 | 11 | 11 | 9 | * | 9 | * | 11 |
| 30 | * | * | * | * | * | * | * | * | * | 10 | 16 | 17 | 17 | 17 | 16 | 14 | 13 | 10 | * | 10 | * | * | 9 | 11 | 11 |
| 31 | * | * | * | * | * | * | * | 11 | * | 14 | 17 | 20 | * | * | 11 | 11 | 9 | | | | | | | | |
| MEAN | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 2. | 3. | 3. | 3. | 2. | 2. | 3. | 2. | 2. | 4. | 3. | 2. | 2. | 2. | 2. | 2. | 2. |

TOTAL NUMBER OF OBSERVATIONS = 7999 MEAN = 2.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF FOUR DIOXIDE(UG/M**3)
TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

hour

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | | 0. |

TOTAL NUMBER OF OBSERVATIONS = 7911 MEAN = 0.

* OF VALUES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF SULFUR DIOXIDE (UG/M**3)
TRAILER NO. - 21 PERIOD (11/ 1/74 TO 11/30/74)

DAY

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN | |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|
| 1 | 31 | 31 | 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 4. | |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 27 | 17 | 22 | 26 | 24 | 21 | 25 | 24 | 25 | 22 | 23 | 23 | 22 | 25 | 26 | * | * | 15 | * | * | * | * | * | * | * | 18. | |
| 28 | * | * | * | 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 7. |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 4. | |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| 31 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0. | |
| MEAN | 2. | 3. | 2. | 2. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 2. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | |

TOTAL NUMBER OF OBSERVATIONS = 7476 MEAN = 1.

* IF OVER A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF SULFUR DIOXIDE (UG/M**3)
TRAILER NO. - 22 PERIOD (11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | ME |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 2. | 2. | 2. | 2. | 2. | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 3. | 3. |

TOTAL NUMBER OF OBSERVATIONS = 8291 MEAN = 3.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF SULFUR DIOXIDE (UG/M**3)
 TAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 ME |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS = 6863 MEAN = 0.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF SULFUR DIOXIDE (UG/M³)
 TRAILER NO. - 24 PERIOD (11/ 1/74 TO 11/30/74)

HOURLY

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS = 7418 MEAN = 0.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF HYDROGEN SULFIDE (UG/M³)
TRAILER NO. - 22 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 10 | 9 | 7 | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

TOTAL NUMBER OF OBSERVATIONS = 7869 MEAN = 0.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF HYDROGEN SULFIDE (UG/M**3)
TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 1. | 2. | 2. | 2. | 4. | 2. | 1. | 1. | 1. | 1. | 1. | 0. | 1. | 2. | 2. | 2. | 2. | 1. | 2. | 2. | 2. | 2. | 1. | 1. | 1. |

TOTAL NUMBER OF OBSERVATIONS = 6110 MEAN = 2.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DAILY VARIATION OF HYDROGEN SULFIDE (UG/M**3)
 TAILER NO. - 22 PERIOD (11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

TOTAL NUMBER OF OBSERVATIONS = 8291 MEAN = 0.

* DENOTES A VALUE SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF HYDROGEN SULFIDE (UG/M**3)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | ME |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

TOTAL NUMBER OF OBSERVATIONS = 7809 MEAN = 0.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

JOURNAL VARIATION OF HYDROGEN SULFIDE(UG/M**3)
TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 ME |
| 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 24 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 25 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 26 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 27 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 28 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 29 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 30 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

TOTAL NUMBER OF OBSERVATIONS = 7734 MEAN = 0.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

CORPORATION

DAILY VARIATION OF TOTAL HYDROCARBONS (UG/M**3 X 10**+2)
 TAILER NO. - 20 PERIOD (11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | ME |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS = 4912 MEAN = 9.

JOURNAL VARIATION OF TOTAL HYDROCARBONS (UG/M**3 X 12**--2)
 TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|-------------------------------------|------|-----|------|-----|-----|-----|-----|-----|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|-------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 118 | 135 | 112 | 110 | 73 | 101 | 70 | 91 | 102 | 97 | 104 | 123 | 148 | 147 | 114 | 115 | 138 | 134 | 122 | 129 | 114 | 99 | 133 | 102 | 96 |
| 4 | 137 | 122 | 123 | 81 | 87 | 121 | 70 | 106 | 95 | 118 | 101 | 141 | 136 | 132 | | | | | | | | 105 | 118 | | 115 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | 134 | 114 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 78 | 92 | 94 | 90 | 46 | 83 | 90 | 108 | 112 | 81 | 111 | 95 | | | 50 | 71 | | | 86 | 77 | 98 | 54 | 98 | 50 | 73 |
| 8 | 53 | 62 | 94 | 100 | 60 | 59 | 93 | 74 | 63 | 63 | 114 | 65 | 89 | 137 | 108 | 111 | 120 | 115 | 104 | 78 | 90 | 70 | 106 | 59 | 91 |
| 9 | | | | | | | | | | | | 126 | 64 | 103 | 101 | 96 | 99 | 100 | 84 | 114 | 116 | 77 | 110 | 121 | 96 |
| 10 | 102 | 88 | 111 | | | | | | | | | | | | | | | | 81 | 86 | 93 | 78 | 116 | 67 | 94 |
| 11 | | | | | | | | | | 144 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 |
| 12 | | | | | | | | | | | | | 145 | 145 | 145 | 145 | 145 | | | | | | | | 145 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 101 | 87 | 78 | 73 | 94 | 128 | 90 | 62 | 114 | 86 | 136 | 132 | 127 | 120 | 111 | 130 | 127 | 113 | 133 | 79 | 105 | 107 | 98 | | 101 |
| 17 | 80 | 74 | 95 | 78 | 95 | 88 | 84 | 75 | 111 | 144 | 103 | 81 | 56 | 71 | 86 | 125 | 128 | 89 | 62 | 90 | 82 | 104 | 91 | | 102 |
| 18 | | | | | | | | | | | | | | | 54 | 73 | 86 | 89 | 88 | | | | | | 93 |
| 19 | | | | | | | | | | | | | | | | 149 | 134 | 88 | 90 | 68 | 100 | 82 | 70 | 94 | 81 |
| 20 | 121 | 81 | 71 | 80 | 74 | 51 | 79 | 90 | 93 | 79 | 131 | 75 | 62 | 47 | 71 | 97 | 80 | 117 | 74 | 105 | 85 | 62 | 107 | 97 | 97 |
| 21 | 110 | 77 | 57 | 64 | 60 | 53 | 74 | 100 | 92 | 94 | 74 | 74 | 83 | 107 | 121 | 137 | 122 | 98 | 111 | 170 | 195 | 160 | 144 | 183 | 108 |
| 22 | 118 | 133 | 134 | 186 | 159 | 182 | 155 | 164 | 160 | 142 | | | | | 161 | 133 | 193 | 146 | 146 | 206 | 268 | 151 | 160 | 207 | 168 |
| 23 | 200 | 210 | 197 | 172 | 213 | 210 | 197 | 142 | 207 | 248 | 226 | 242 | 94 | 139 | 253 | 259 | 157 | 175 | 110 | 151 | 153 | 170 | 157 | 131 | 186 |
| 24 | 130 | 110 | 180 | 142 | 144 | 132 | 192 | 146 | 143 | 220 | 209 | 173 | 153 | 142 | 191 | 272 | 191 | 166 | 174 | 156 | 200 | 208 | 140 | 130 | 171 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 68 | 70 | 67 | 89 | 86 | 68 | 70 | 87 | 78 | 109 | 90 | 88 | 125 | 145 | 132 | | | | 65 | 55 | 64 | 58 | 76 | 65 | 83 |
| 27 | 47 | 52 | 55 | 50 | 71 | 67 | 67 | 56 | 41 | 86 | 72 | 80 | 62 | 68 | | | | | 71 | 90 | 62 | 56 | 74 | 59 | 65 |
| 28 | 55 | 62 | 53 | 58 | 43 | 79 | 113 | 98 | 101 | 86 | 69 | 130 | 49 | 58 | 81 | 88 | | | 89 | 53 | 80 | 73 | 91 | 69 | 76 |
| 29 | 51 | 44 | 77 | 50 | 68 | 62 | 61 | 68 | 58 | 67 | 98 | 128 | 75 | 84 | 86 | 77 | 90 | 70 | 75 | 86 | 81 | 56 | 68 | 66 | 75 |
| 30 | 63 | 61 | 73 | 74 | 60 | 60 | 53 | 72 | 84 | 85 | 108 | 113 | 29 | 31 | 49 | 72 | 57 | | | | | | | | 68 |
| MEAN | 101. | 93. | 110. | 94. | 95. | 97. | 97. | 90. | 104. | 116. | 118. | 120. | 95. | 105. | 118. | 129. | 112. | 108. | 100. | 106. | 117. | 101. | 110. | 105. | |
| TOTAL NUMBER OF OBSERVATIONS = 5142 | | | | | | | | | | | | | | | | | | | | | | | | | MEAN = 105. |

DIURNAL VARIATION OF ETHANE (UG/M**3 X 10**+2)
(RAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

11 12 13 14 15 16 17 18 19 20 21 22 23 24 ME

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | ME |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 8 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 8 |
| 2 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 3 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 11 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 12 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 13 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 14 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 15 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 17 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 18 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 19 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 20 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 21 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 22 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 23 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 24 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 25 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 26 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 27 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 28 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 29 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 30 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| MEAN | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. | 8. |

TOTAL NUMBER OF OBSERVATIONS = 4905 MEAN = 8.

JOURNAL VARIATION OF 1 HANE (UG/M++3 X 1P++-2)
TAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOOR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 2 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 3 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 11 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 12 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 13 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 14 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 15 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 16 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 17 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 18 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 19 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 20 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 21 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 22 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 23 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 24 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 25 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 26 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 27 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 28 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 29 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 30 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| MEAN | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. | 9. |

TOTAL NUMBER OF OBSERVATIONS = 4859 MEAN = 15.

DIURNAL VARIATION OF NON-METHANE HYDROCARBONS (UG/H**3 X 10**+2)
TRAILER NO. - 26 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEAN | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 1. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

TOTAL NUMBER OF OBSERVATIONS = 4905 MEAN = 0.

DIURNAL VARIATION OF NON-METHANE HYDROCARBONS (UG/M³ X 10⁴ -2)
 TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

1000

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|------|
| 1 | 112 | 126 | 111 | 112 | 65 | 92 | 60 | 83 | 94 | 89 | 95 | 114 | 144 | 138 | 106 | 125 | 129 | 125 | 114 | 120 | 91 | 90 | 125 | 94 | 88 |
| 2 | 122 | 114 | 115 | 72 | 78 | 113 | 71 | 97 | 85 | 109 | 93 | 132 | 128 | 123 | | | | | | | | 97 | 109 | 107 | 107 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 68 | 82 | 55 | 40 | 37 | 74 | 60 | 98 | 102 | 72 | 121 | 85 | | 94 | 126 | 128 | 89 | 86 | 95 | 69 | 88 | 44 | 89 | 41 | 64 |
| 8 | 49 | 52 | 80 | 36 | 89 | 42 | 83 | 65 | 53 | 73 | 105 | 55 | 84 | 125 | 99 | 102 | 111 | 105 | 74 | 104 | 107 | 68 | 96 | 50 | 82 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 92 | 78 | 102 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 93 | 59 | 78 | 70 | 56 | 109 | 82 | 54 | 106 | 77 | 128 | 123 | 119 | 112 | 119 | 117 | 118 | 105 | 125 | 71 | 97 | 99 | 90 | 96 | 93 |
| 17 | 78 | 70 | 86 | 78 | 85 | 78 | 78 | 60 | 103 | 136 | 94 | 72 | 47 | 63 | 78 | 117 | 120 | 81 | 74 | 92 | 97 | 81 | 85 | 96 | 94 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 93 | 73 | 53 | 71 | 69 | 42 | 71 | 82 | 64 | 74 | 123 | 67 | 54 | 39 | 63 | 88 | 71 | 79 | 82 | 59 | 92 | 73 | 62 | 85 | 72 |
| 20 | 121 | 57 | 49 | 56 | 52 | 54 | 60 | 97 | 83 | 85 | 65 | 65 | 74 | 98 | 113 | 129 | 113 | 91 | 66 | 96 | 76 | 54 | 98 | 88 | 89 |
| 21 | 111 | 126 | 127 | 181 | 162 | 176 | 148 | 157 | 153 | 135 | | | | | | | | | | | | | | | |
| 22 | 222 | 212 | 197 | 154 | 204 | 211 | 18 | 133 | 200 | 241 | 218 | 235 | 86 | 131 | 245 | 154 | 126 | 186 | 139 | 199 | 261 | 144 | 153 | 201 | 161 |
| 23 | 161 | 129 | 179 | 135 | 137 | 125 | 154 | 139 | 136 | 213 | 201 | 166 | 146 | 135 | 184 | 252 | 163 | 168 | 103 | 143 | 146 | 163 | 150 | 124 | 179 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 54 | 72 | 64 | 85 | 83 | 64 | 72 | 84 | 74 | 105 | 87 | 84 | 121 | 141 | 129 | | | | | | | | | | |
| 27 | 39 | 54 | 87 | 42 | 53 | 42 | 61 | 48 | 33 | 78 | 64 | 82 | 54 | 60 | | | | | | | | | | | |
| 28 | 45 | 56 | 73 | 48 | 54 | 74 | 104 | 79 | 92 | 77 | 51 | 121 | 40 | 49 | 72 | 79 | 62 | 43 | 80 | 43 | 71 | 54 | 81 | 60 | 67 |
| 29 | 55 | 53 | 65 | 66 | 52 | 52 | 44 | 63 | 76 | 77 | 102 | 104 | 20 | 22 | 41 | 63 | 48 | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 95. | 88. | 93. | 88. | 88. | 91. | 91. | 90. | 92. | 102. | 103. | 103. | 71. | 82. | 95. | 108. | 91. | 95. | 86. | 92. | 104. | 87. | 97. | 91. | 59. |

TOTAL NUMBER OF OBSERVATIONS = 4859 MEAN = 93.

DIURNAL VARIATION OF CARBON MONOXIDE(UG/M*3 X 10**--2)
TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| AY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 3 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 11 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 12 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 13 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 14 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 15 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 16 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 17 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 18 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 19 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 20 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 21 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 22 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 23 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 24 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| MEAN | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. |

TOTAL NUMBER OF OBSERVATIONS = 5477 MEAN = 5.

DAILY VARIATION OF CARBON MONOXIDE (UG/M*3 X 10**2)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/32/74)

| Y | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | |
| 1 | 26 | 26 | 27 | 28 | 28 | 28 | 28 | 29 | 26 | 24 | 28 | 26 | 27 | 28 | 27 | 27 | 27 | 27 | 4 | 5 | 6 | 7 | 8 | 8 | | | |
| 2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 9 | 10 | 9 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 10 | 11 | 12 | | | |
| 3 | 11 | 11 | 12 | 11 | 10 | 11 | 10 | 11 | 11 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 10 | 11 | 12 | | | |
| 4 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 30 | 28 | 31 | 31 | 33 | 32 | 34 | 30 | 32 | 32 | 44 | 28 | 28 | 28 | 28 | 28 | 31 | | | |
| 5 | 29 | 30 | 30 | 29 | 30 | 30 | 29 | 29 | 31 | 31 | 34 | 30 | 29 | 29 | 29 | 27 | 27 | 27 | 28 | 27 | 30 | 29 | 28 | 28 | | | |
| 6 | 29 | 29 | 29 | 29 | 30 | 29 | 27 | 32 | 31 | 30 | 31 | 34 | 26 | 26 | 25 | 24 | 24 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | | | |
| 7 | 29 | 29 | 27 | 29 | 29 | 29 | 29 | 28 | 29 | 29 | 29 | 26 | 27 | 28 | 28 | 29 | 29 | 27 | 28 | 28 | 28 | 28 | 28 | 27 | | | |
| 8 | 30 | 29 | 30 | 31 | 32 | 31 | 29 | 31 | 32 | 32 | 29 | 34 | 27 | 28 | 28 | 31 | 31 | 29 | 29 | 30 | 30 | 29 | 31 | 31 | | | |
| 9 | 32 | 32 | 33 | 31 | 32 | 31 | 29 | 31 | 32 | 32 | 32 | 34 | 30 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | 32 | 31 | 31 | 30 | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 132 | 132 | 131 | 129 | 127 | 126 | 125 | 123 | 84 | 94 | 102 | 104 | | | | | | 145 | 144 | 143 | 141 | 140 | 139 | 136 | 135 | 134 | 140 |
| 12 | 102 | 101 | 100 | 101 | 101 | 100 | 99 | 97 | 96 | 97 | 97 | 95 | 95 | | 94 | 93 | 92 | | 93 | 91 | 90 | 92 | 91 | 91 | 91 | 96 | 119 |
| 13 | 91 | 91 | 90 | 90 | 89 | 88 | 84 | 80 | 87 | 86 | 86 | 86 | 84 | 85 | 85 | 85 | 87 | 84 | 84 | 84 | 83 | 84 | 83 | 84 | 86 | 87 | 90 |
| 14 | 84 | 83 | 82 | 81 | 80 | 79 | 79 | 79 | 76 | 78 | 78 | | | | 33 | 30 | 28 | 28 | 26 | 26 | 24 | 24 | 22 | 19 | 19 | 19 | 57 |
| 15 | 10 | 20 | 19 | | | | | | | | | | | | | 26 | 29 | 29 | 29 | 30 | 27 | 30 | 27 | 29 | 29 | 30 | 27 |
| 16 | 30 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 28 | 29 | 31 | 27 | 25 | 25 | 24 | 25 | 25 | 25 | 27 | 25 | 27 | 25 | 26 | 26 | 26 | 29 | 28 |
| 17 | 25 | 24 | 24 | 24 | 25 | 26 | 26 | 26 | 25 | 25 | 29 | 33 | 26 | 29 | 28 | 28 | 32 | 29 | 27 | 27 | 24 | 24 | 24 | 24 | 24 | 24 | 27 |
| 18 | 23 | 27 | 23 | 27 | 28 | 25 | 25 | 27 | 30 | 29 | 27 | 25 | 24 | 29 | 24 | 28 | 28 | 27 | 27 | 26 | 24 | 26 | 26 | 26 | 27 | 28 | 25 |
| 19 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 13 | 14 | 12 | 15 | 15 | 13 | | 10 | 10 | 11 | 12 | 12 | 12 | 13 | 13 | 13 | 16 | 14 |
| 20 | 14 | 15 | 13 | 13 | 14 | 13 | 13 | 12 | 14 | 15 | 14 | 12 | 12 | 12 | 13 | | 34 | 31 | 30 | 27 | 28 | 28 | 33 | 33 | 33 | 30 | 20 |
| 21 | 29 | 29 | 27 | 23 | 28 | 24 | 25 | 27 | 27 | 29 | 29 | 29 | 26 | 27 | 27 | | 27 | 29 | 29 | 28 | 31 | 28 | 28 | 28 | 29 | 27 | |
| 22 | 29 | 29 | 31 | 29 | 29 | 29 | 32 | 31 | 33 | 31 | 29 | 34 | 28 | 28 | 28 | 30 | | 29 | 28 | 30 | 29 | 30 | 28 | 29 | 29 | 27 | |
| 23 | 26 | 29 | 30 | 29 | 31 | 29 | 30 | 29 | 29 | 33 | 32 | 35 | 31 | 34 | 29 | 30 | 30 | | 30 | 30 | 29 | 30 | 30 | 29 | 29 | 27 | |
| 24 | 29 | 29 | 30 | 29 | 31 | 30 | 30 | 30 | 29 | 33 | 32 | 32 | 31 | 34 | 29 | 31 | 31 | 32 | 31 | 27 | 27 | 30 | 30 | 29 | 29 | 27 | |
| 25 | 30 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 32 | 31 | 33 | 32 | 29 | 26 | 28 | 29 | 26 | 26 | 26 | 27 | 27 | 30 | 30 | 29 | 29 | 27 | |
| MEAN | 37. | 37. | 37. | 38. | 38. | 38. | 38. | 38. | 37. | 38. | 38. | 35. | 33. | 35. | 34. | 37. | 38. | 38. | 36. | 35. | 36. | 36. | 36. | 37. | 37. | 36. | 36. |

TOTAL NUMBER OF OBSERVATIONS = 6359 MEAN = 37.

DIURNAL VARIATION OF OZONE(UG/M**3)
 TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 22 | 21 | 19 | * | 2 | 4 | 9 | 11 | 14 | 15 | 28 | 31 | 33 | 36 | 38 | | 48 | 41 | 40 | 36 | 36 | 31 | 38 | 29 |
| 2 | 22 | 19 | 13 | 16 | 22 | 17 | 14 | 15 | 19 | 36 | 52 | 53 | 54 | 52 | 52 | 53 | 52 | 47 | 41 | 39 | 32 | 29 | 26 | 25 |
| 3 | 26 | 25 | 23 | 21 | 21 | 22 | 21 | 21 | 22 | 23 | 24 | 27 | 30 | 28 | 28 | 29 | 33 | 33 | 29 | 28 | 27 | 29 | 24 | 25 |
| 4 | 33 | 26 | 31 | 26 | 32 | 30 | 26 | 24 | 28 | 35 | 41 | 44 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | 45 | 45 | 39 | 28 | 19 | 15 | 14 | 14 | 16 | |
| 6 | 13 | 16 | 17 | 14 | 8 | 7 | 3 | 8 | 10 | 28 | 42 | 46 | 46 | 47 | 47 | 47 | 47 | 37 | 26 | 21 | 19 | 19 | 18 | |
| 7 | 23 | 22 | 21 | 22 | 24 | 17 | 17 | 21 | 27 | 35 | 49 | 50 | 49 | 47 | 47 | 48 | 47 | 31 | 15 | 23 | 22 | 22 | 15 | |
| 8 | 21 | 25 | 27 | 27 | 26 | 25 | 22 | 29 | 31 | 36 | 48 | 49 | 48 | 47 | 45 | 45 | 43 | 31 | 21 | 12 | 17 | 16 | 16 | |
| 9 | 15 | 14 | 22 | 19 | 13 | 15 | 24 | 19 | 17 | 24 | 32 | 33 | 35 | 39 | 41 | 31 | 31 | 23 | 16 | 17 | 14 | 18 | 15 | |
| 10 | 17 | 19 | 22 | * | * | * | 2 | 11 | 11 | 19 | 22 | 22 | 23 | 23 | 22 | 20 | 13 | 2 | 4 | 1 | 1 | 7 | 2 | * |
| 11 | * | * | * | * | * | * | 3 | 4 | 11 | 17 | 26 | 39 | 45 | 45 | 45 | 44 | 36 | 20 | 22 | 22 | 24 | 25 | 25 | 24 |
| 12 | 25 | 24 | 23 | 25 | 26 | 28 | 3 | 31 | 31 | 35 | 43 | 45 | 45 | 44 | 43 | 41 | 39 | 38 | 39 | 40 | 34 | 34 | 28 | 31 |
| 13 | 34 | 32 | 33 | 31 | 29 | 27 | 25 | 25 | 23 | 27 | 35 | 39 | 39 | 39 | 43 | 42 | 36 | 28 | 20 | 9 | 12 | 9 | 9 | 27 |
| 14 | 15 | 14 | 16 | 17 | 19 | 20 | 21 | 21 | 24 | 29 | 43 | 45 | 46 | 46 | 45 | 41 | 38 | 32 | 33 | 29 | 27 | 25 | 27 | 29 |
| 15 | 11 | 13 | 14 | 15 | 13 | 13 | 14 | 11 | 23 | 37 | 46 | 41 | 41 | 43 | 44 | 39 | 36 | 23 | 15 | 11 | 16 | 11 | 11 | 26 |
| 16 | 13 | 13 | 15 | 15 | 16 | 15 | 15 | 16 | 20 | 26 | 38 | 41 | 44 | 45 | 46 | 45 | 33 | 24 | 24 | 25 | 22 | 16 | 19 | 21 |
| 17 | 24 | 22 | 24 | 25 | 26 | 24 | 27 | 26 | 27 | 31 | 41 | 45 | 44 | 43 | 43 | 44 | 43 | 29 | 16 | 24 | 30 | 30 | 29 | 31 |
| 18 | 29 | 25 | 24 | 29 | 34 | 35 | 35 | 38 | 39 | 39 | 39 | 43 | 39 | 41 | 42 | 42 | 40 | 28 | 25 | 35 | 28 | 25 | 25 | 25 |
| 19 | | | | | | | | | | | | | | | 44 | 43 | 38 | 26 | 18 | 24 | 25 | 26 | 26 | 30 |
| 20 | 23 | 24 | 26 | 3 | * | * | * | * | 2 | 7 | 17 | 18 | 18 | 17 | 16 | 19 | 36 | 26 | 28 | 30 | 28 | 31 | 31 | 30 |
| 21 | 23 | 32 | 31 | 27 | 30 | 31 | 31 | 32 | 33 | 35 | 47 | 48 | 47 | 46 | 45 | 44 | 37 | 25 | 23 | 27 | 26 | 21 | 21 | 34 |
| 22 | 34 | 34 | 23 | 25 | 19 | 18 | 22 | 33 | 25 | 39 | 41 | 42 | 43 | 44 | 46 | 47 | 44 | 37 | 32 | 34 | 36 | 36 | 42 | 41 |
| 23 | 42 | 39 | 4 | 42 | 37 | 32 | 24 | 23 | 23 | 27 | 30 | 37 | 44 | 45 | 46 | 44 | 30 | 26 | 27 | 29 | 22 | 21 | 26 | 35 |
| 24 | 29 | 3 | 29 | 29 | 23 | 24 | 23 | 28 | 32 | 34 | 37 | 44 | 47 | 47 | 46 | 43 | 33 | 25 | 23 | 24 | 27 | 27 | 30 | 3 |
| 25 | 31 | 30 | 32 | 32 | 32 | 32 | 33 | 35 | 34 | 40 | 45 | 44 | 46 | 46 | 47 | 48 | 47 | 42 | 32 | 25 | 22 | 22 | 20 | 14 |
| 26 | 19 | 24 | 27 | 23 | 27 | 27 | 25 | 24 | 29 | 36 | 49 | 51 | 53 | 54 | 54 | 53 | 43 | 32 | 32 | 30 | 27 | 26 | 26 | 26 |
| 27 | 33 | 31 | 33 | 34 | 27 | 31 | 36 | 33 | 41 | 45 | 53 | | 55 | 54 | 53 | 52 | 45 | 33 | 32 | 33 | 24 | 24 | 24 | 46 |
| 28 | 47 | 41 | 41 | 35 | 34 | 35 | 31 | 31 | 31 | 35 | 40 | 43 | 44 | 45 | 46 | 47 | 47 | 48 | 46 | 43 | 40 | 33 | 31 | 30 |
| 29 | 24 | 27 | 27 | 27 | 29 | 27 | 25 | 34 | 32 | 35 | 42 | 50 | 50 | 52 | 51 | 50 | 38 | 29 | 35 | 33 | 32 | 32 | 32 | 31 |
| 30 | 31 | 32 | 27 | 31 | 32 | 32 | 31 | 25 | 31 | 41 | 35 | 43 | 53 | 52 | 52 | 49 | 38 | 3 | 31 | 33 | 33 | 33 | 33 | 35 |
| MEAN | 26. | 25. | 25. | 23. | 22. | 22. | 22. | 23. | 25. | 32. | 39. | 42. | 43. | 43. | 44. | 43. | 39. | 31. | 27. | 26. | 25. | 25. | 24. | 25. |

MEAN

24. 25. 25. 26. 22. 22. 22. 22. 23. 25. 32. 39. 42. 43. 43. 44. 43. 39. 31. 27. 26. 25. 25. 24. 24. 25.

TOTAL NUMBER OF OBSERVATIONS = 7974 MEAN = 39.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

DIURNAL VARIATION OF OZONE (UG/M**3)
 TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 ME |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 10 | 11 | 11 | 8 | 3 | 9 | 8 | 8 | 8 | 8 | 8 | 8 |
| 3 | 4 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 6 | 7 | 6 | 6 | 7 | 4 | 5 | 4 | 4 | 4 | 4 | 3 |
| 4 | 5 | 5 | 5 | 5 | 8 | 7 | 6 | 7 | 7 | 8 | 10 | 11 | 11 | 11 | | | 7 | 7 | 8 | 7 | 8 | 8 | 7 | 7 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 11 | 12 | 12 | 14 | 13 | 12 | 12 | 12 | 14 | 16 | 19 | 18 | 24 | 22 | 23 | 16 | 15 | 13 | 12 | 12 | 12 | 12 | 12 | 12 |
| 8 | 17 | 17 | 17 | 17 | 18 | 17 | 15 | 14 | 15 | 19 | 21 | 25 | 22 | 24 | 18 | 17 | 23 | 19 | 18 | 17 | 17 | 18 | 18 | 18 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 11 | 11 | 11 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 15 | 14 | 13 | 13 | 14 | 14 | 13 | 13 | 12 | 13 | 15 | 17 | 7 | 9 | 22 | 22 | 11 | 11 | 12 | 12 | 12 | 11 | 12 | 12 |
| 16 | 12 | 12 | 13 | 12 | 9 | 12 | 14 | 13 | 9 | 11 | 15 | 16 | 14 | 16 | 15 | 14 | 14 | 17 | 16 | 12 | 11 | 15 | 16 | 13 |
| 17 | 15 | 17 | 15 | 15 | 16 | 16 | 14 | 15 | 12 | 14 | 24 | 26 | 24 | 23 | 21 | 23 | 24 | 18 | 17 | 13 | 13 | 15 | 16 | 14 |
| 18 | 14 | 25 | 24 | 23 | 25 | 28 | 29 | 28 | 29 | 30 | 31 | 29 | 28 | 32 | 32 | 30 | 27 | 18 | 17 | 19 | 17 | 14 | 20 | 23 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 17 | 21 | 21 | 18 | 19 | 22 | 21 | 20 | 20 | 21 | 25 | 26 | 29 | 26 | 25 | 17 | 18 | 18 | 19 | 18 | 15 | 16 | 17 | 17 |
| 21 | 21 | 21 | 20 | 19 | 19 | 16 | 19 | 19 | 19 | 25 | 30 | 32 | 31 | 30 | 26 | 26 | 21 | 20 | 18 | 19 | 19 | 19 | 19 | 20 |
| 22 | 27 | 22 | 20 | 17 | 16 | 15 | 17 | 18 | 17 | 19 | 30 | 32 | 31 | 30 | 27 | 27 | 19 | 19 | 18 | 17 | 19 | 19 | 18 | 22 |
| 23 | 17 | 16 | 18 | 16 | 16 | 17 | 16 | 16 | 15 | 15 | 17 | 17 | 16 | 19 | 18 | 28 | 27 | 22 | 21 | 18 | 14 | 15 | 16 | 15 |
| 24 | 16 | 19 | 18 | 16 | 20 | 19 | 17 | 19 | 16 | 15 | 17 | 18 | 23 | 22 | 18 | 16 | 16 | 16 | 17 | 16 | 19 | 17 | 17 | 19 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | |

TOTAL NUMBER OF OBSERVATIONS = 4214 MEAN = 16.

* DENOTES A VALID SAMPLE BELOW THE MINIMUM DETECTABLE LIMIT OF THE INSTRUMENT

HOURLY TOTAL PRECIPITATION (INCHES)
TRAILER NO. - 20 PERIOD (11/ 1/74 TO 11/30/74)

HOURLY

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

TOTAL

0. 0.

HOURLY TOTAL PRECIPITATION (INCHES)
TRAILER NO. - 21 PERIOD (11/ 1/74 TO 11/30/74)

HOUR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 TOT

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

TOTAL 0.

TOTAL NUMBER OF OBSERVATIONS = 288 TOTAL = 0.

HOURLY TOTAL PRECIPITATION (INCHES)
 TRAILER NO. - 22 PERIOD (11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|-------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | |

HOURLY TOTAL PRECIPITATION (INCHES)
TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-------|------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 TOTAL |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | |

HOURLY TOTAL PRECIPITATION(INCHES)
TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 TO

DAY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

TOTAL 0.

DIURNAL VARIATION OF WIND SPEED(MPH)
TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 3 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 2 | 4 | 0 | 0 | 1 | 3 | 2 | 0 | 0 |
| 2 | 0 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 2 | 5 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 3 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 5 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 4 | 3 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 6 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 8 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 9 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 10 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 11 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 12 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 13 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 14 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 15 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 16 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 17 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 18 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 19 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 20 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 21 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 22 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 23 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 24 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 25 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 26 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 27 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 28 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 29 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |
| 30 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 |

PEAK

TOTAL NUMBER OF OBSERVATIONS = 8295 MEAN = 3.

JOURNAL VARIATION OF WIND SPEED (MPH)
TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 4 | 2 | 2 | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 10 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 11 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 12 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 13 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 14 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 15 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 16 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 17 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 18 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 19 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 20 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 21 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 22 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 23 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 24 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 25 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 26 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 27 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 28 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 29 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 30 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

TOTAL NUMBER OF OBSERVATIONS = 8135 MEAN = 3.

JOURNAL VARIATION OF WIND SPEED(MPH)
TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 4 | 1 | 3 | 2 | 2 | 2 | 4 | 1 | 1 | 4 | 3 | 4 | 6 | 6 | 6 | 8 | 5 | 4 | 2 | 5 | 4 | 3 | 1 | 1 |
| 2 | 1 | 3 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 4 | 2 | 1 | 4 | 3 | 3 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 10 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 11 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 12 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 13 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 14 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 15 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 16 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 17 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 18 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 19 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 20 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 21 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 22 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 23 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 24 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| MEAN | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. | 5. |

TOTAL NUMBER OF OBSERVATIONS = 8321 MEAN = 5.

DIURNAL VARIATION OF WIND SPEED (MPH)
TRAILER NO. - 24 PERIOD (11/ 1/74 TO 11/30/74)

HOURLY

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 10 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 11 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 12 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 13 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 14 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 15 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 16 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 17 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 18 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 19 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 21 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 22 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 23 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 24 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 25 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 26 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 27 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 28 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 29 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 30 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

TOTAL NUMBER OF OBSERVATIONS = 7224 MEAN = 3.

JOURNAL VARIATION OF WIND SPEED AT 8 FEET (MPH)
TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 2 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 3 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 4 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 5 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 6 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 7 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 8 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 9 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 10 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 11 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 12 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 13 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 14 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 15 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 16 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 17 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 18 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 19 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 20 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 21 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 22 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 23 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| 24 | 2 | 3 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 5 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 |
| MEAN | 4. | 4. | 4. | 4. | 4. | 4. | 4. | 4. | 4. | 4. | 5. | 6. | 6. | 6. | 7. | 0. | 5. | 4. | 4. | 4. | 3. | 3. | 3. | 3. | 3. |

TOTAL NUMBER OF OBSERVATIONS = 3940 MEAN = 4.

DIURNAL VARIATION OF WIND SPEED AT 30 FEET (MPH)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 5 | 2 | 5 | 5 | 5 | 5 | 9 | 4 | 4 | 6 | 5 | 10 | 12 | 13 | 11 | 12 | 7 | 4 | 4 | 6 | 5 | 6 | 4 | 4 | 7 |
| 2 | 3 | 4 | 5 | 3 | 3 | 3 | 3 | 2 | 5 | 7 | 5 | 4 | 5 | 9 | 7 | 6 | 3 | 6 | 5 | 7 | 7 | 6 | 6 | 6 |
| 5 | 0 | 2 | 3 | 2 | 2 | 2 | 3 | 1 | 1 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 6 | 3 | 3 | 3 | 2 | 3 | 2 | 2 |
| 3 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 5 | 3 | 4 | 3 | 7 | 10 | 7 | 7 | 8 | 7 | 7 | 4 | 2 | 5 | 4 | 2 | 2 |
| 3 | 1 | 4 | 2 | 4 | 4 | 5 | 3 | 3 | 10 | 10 | 13 | 12 | 10 | 10 | 11 | 10 | 7 | 5 | 7 | 7 | 7 | 9 | 11 | 4 |
| 1 | 1 | 1 | 3 | 1 | 1 | 3 | 4 | 1 | 10 | 9 | 12 | 10 | 11 | 7 | 9 | 7 | 5 | 2 | 2 | 4 | 5 | 2 | 1 | 4 |
| 3 | 3 | 1 | 3 | 2 | 2 | 4 | 2 | 1 | 2 | 5 | 2 | 2 | 3 | 5 | 3 | 2 | 3 | 8 | 6 | 5 | 3 | 1 | 3 | 3 |
| 3 | 2 | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 2 | 3 | 6 | 7 | 2 | 6 | 4 | 5 | 4 | 6 | 5 | 4 | 1 | 4 | 6 |
| 5 | 4 | 5 | 5 | 5 | 5 | 7 | 3 | 5 | 8 | 11 | 14 | 17 | 11 | 14 | 13 | 13 | 10 | 6 | 7 | 11 | 3 | 13 | 9 | 9 |
| 4 | 4 | 3 | 5 | 4 | 4 | 5 | 3 | 2 | 6 | 6 | 6 | 9 | 9 | 7 | 5 | 9 | 10 | 3 | 4 | 2 | 5 | 3 | 4 | 5 |
| 4 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 5 | 9 | 5 | 4 | 4 | 4 | 3 | 4 | 5 | 4 | 4 | 3 | 2 | 6 | 7 |
| 5 | 3 | 0 | 5 | 5 | 5 | 5 | 5 | 2 | 3 | 10 | 10 | 14 | 12 | 10 | 11 | 8 | 10 | 5 | 4 | 2 | 3 | 10 | 5 | 5 |
| 3 | 3 | 10 | 17 | 16 | 16 | 18 | 20 | 22 | 24 | 23 | 20 | 18 | 20 | 21 | 15 | 15 | 14 | 11 | 9 | 6 | 4 | 10 | 9 | 10 |
| 5 | 4 | 7 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 12 | 4 | 4 | 7 | 5 | 6 | 5 | 8 | 4 | 2 | 5 | 5 |
| 5 | 7 | 0 | 5 | 5 | 5 | 6 | 7 | 6 | 5 | 8 | 8 | 11 | 12 | 12 | 11 | 8 | 5 | 8 | 7 | 7 | 5 | 7 | 14 | 8 |
| 5 | 3 | 12 | 13 | 14 | 14 | 16 | 13 | 18 | 12 | 12 | 15 | 16 | 17 | 16 | 14 | 13 | 9 | 9 | 7 | 3 | 8 | 8 | 19 | 9 |
| 2 | 11 | 12 | 12 | 14 | 14 | 13 | 2 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 4 | 4 | 6 | 2 | 9 | 1 | 2 | 2 | 2 |
| 5 | 6 | 3 | 3 | 3 | 3 | 4 | 7 | 14 | 10 | 10 | 15 | 21 | 25 | 25 | 5 | 5 | 12 | 7 | 5 | 4 | 5 | 4 | 6 | 5 |
| 5 | 5 | 5 | 5 | 5 | 5 | 7 | 5 | 5 | 3 | 3 | 4 | 5 | 8 | 8 | 8 | 6 | 3 | 6 | 4 | 2 | 7 | 5 | 5 | 5 |
| 5 | 5 | 5 | 5 | 5 | 5 | 8 | 11 | 8 | 5 | 7 | 12 | 12 | 9 | 15 | 11 | 4 | 2 | 5 | 4 | 4 | 4 | 7 | 5 | 5 |
| 7 | 0 | 0 | 2 | 5 | 8 | 8 | 12 | 11 | 11 | 14 | 15 | 14 | 10 | 14 | 19 | 16 | 9 | 9 | 9 | 3 | 8 | 7 | 7 | 7 |
| 5 | 7 | 5 | 3 | 2 | 2 | 1 | 4 | 3 | 4 | 4 | 5 | 7 | 3 | 4 | 4 | 2 | 3 | 5 | 2 | 9 | 8 | 7 | 4 | 2 |
| 2 | 2 | 4 | 3 | 3 | 3 | 3 | 2 | 4 | 5 | 3 | 4 | 5 | 8 | 7 | 10 | 9 | 3 | 5 | 2 | 2 | 4 | 3 | 2 | 5 |

TOTAL NUMBER OF OBSERVATIONS = 8398 MEAN = 7.

DAILY VARIATION OF WIND SPEED AT 100 FEET (MPH)
 TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 8 | 5 | 5 | 11 | 9 | 11 | 10 | 6 | 6 | 7 | 5 | 12 | 13 | 14 | 12 | 13 | 7 | 5 | 6 | 6 | 7 | 7 | 6 | 6 | 9 |
| 2 | 4 | 5 | 5 | 7 | 5 | 4 | 4 | 4 | 3 | 5 | 7 | 6 | 5 | 7 | 9 | 6 | 7 | 4 | 7 | 7 | 8 | 8 | 7 | 8 | 6 |
| 3 | 9 | 6 | 6 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 9 | 8 | 8 | 7 | 10 | 10 | 5 | 7 | 6 | 5 | 6 | 6 | 8 | 8 |
| 4 | 7 | 6 | 3 | 3 | 3 | 2 | 3 | 4 | 1 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 7 | 4 |
| 5 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 4 | 4 | 6 | 9 | 7 | 8 | 6 | 7 | 2 | 1 | 1 | 2 | 2 |
| 6 | 2 | 5 | 5 | 3 | 5 | 5 | 5 | 2 | 2 | 5 | 11 | 14 | 13 | 11 | 11 | 6 | 12 | 11 | 12 | 7 | 3 | 6 | 6 | 3 | 6 |
| 7 | 2 | 12 | 12 | 11 | 11 | 9 | 3 | 3 | 11 | 11 | 10 | 14 | 12 | 12 | 7 | 10 | 8 | 7 | 8 | 8 | 9 | 9 | 12 | 11 | 8 |
| 8 | 1 | 3 | 1 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 5 | 3 | 2 | 3 | 6 | 4 | 1 | 2 | 1 | 3 | 5 | 6 | 4 | 5 | 3 |
| 9 | 7 | 3 | 3 | 5 | 3 | 5 | 5 | 2 | 2 | 3 | 2 | 4 | 6 | 8 | 7 | 7 | 8 | 8 | 10 | 10 | 4 | 5 | 6 | 8 | 4 |
| 10 | 4 | 5 | 5 | 5 | 7 | 4 | 6 | 5 | 5 | 9 | 11 | 16 | 10 | 13 | 12 | 15 | 15 | 13 | 3 | 5 | 4 | 14 | 16 | 12 | 5 |
| 11 | 7 | 12 | 12 | 12 | 12 | 8 | 4 | 4 | 7 | 8 | 7 | 6 | 7 | 10 | 10 | 13 | 13 | 13 | 5 | 6 | 3 | 3 | 2 | 3 | 10 |
| 12 | 11 | 4 | 3 | 3 | 3 | 2 | 4 | 4 | 2 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 11 | 11 | 4 | 3 | 3 | 13 | 5 | 8 |
| 13 | 5 | 5 | 3 | 6 | 5 | 6 | 6 | 6 | 4 | 3 | 11 | 11 | 15 | 13 | 12 | 14 | 9 | 6 | 6 | 5 | 2 | 3 | 7 | 6 | 6 |
| 14 | 4 | 10 | 10 | 21 | 10 | 22 | 24 | 23 | 25 | 27 | 26 | 24 | 24 | 24 | 25 | 18 | 18 | 18 | 14 | 17 | 10 | 10 | 3 | 4 | 19 |
| 15 | 8 | 5 | 5 | 3 | 5 | 5 | 5 | 7 | 6 | 4 | 4 | 5 | 12 | 13 | 14 | 13 | 8 | 8 | 8 | 10 | 8 | 8 | 4 | 6 | 6 |
| 16 | 5 | 5 | 7 | 7 | 7 | 15 | 12 | 8 | 8 | 5 | 9 | 17 | 17 | 16 | 15 | 15 | 10 | 6 | 9 | 9 | 8 | 8 | 7 | 8 | 10 |
| 17 | 5 | 12 | 12 | 7 | 7 | 4 | 10 | 10 | 12 | 13 | 13 | 18 | 18 | 19 | 18 | 16 | 16 | 12 | 11 | 13 | 11 | 4 | 10 | 17 | 11 |
| 18 | 25 | 13 | 14 | 10 | 9 | 5 | 4 | 3 | 6 | 4 | 5 | 5 | 3 | 3 | 2 | 3 | 5 | 7 | 7 | 3 | 2 | 2 | 1 | 3 | 6 |
| 19 | 5 | 2 | 2 | 4 | 4 | 4 | 2 | 9 | 16 | 11 | 12 | 19 | 24 | 29 | 6 | 5 | 21 | 10 | 10 | 7 | 4 | 6 | 5 | 8 | 14 |
| 20 | 8 | 3 | 7 | 14 | 13 | 9 | 11 | 9 | 16 | 11 | 4 | 4 | 6 | 8 | 29 | 12 | 7 | 4 | 5 | 12 | 2 | 4 | 4 | 6 | 6 |
| 21 | 3 | 3 | 7 | 6 | 7 | 6 | 5 | 4 | 6 | 2 | 7 | 13 | 13 | 10 | 9 | 17 | 5 | 2 | 6 | 3 | 2 | 4 | 4 | 5 | 5 |
| 22 | 6 | 5 | 5 | 12 | 12 | 12 | 13 | 12 | 13 | 12 | 16 | 17 | 15 | 11 | 16 | 22 | 19 | 11 | 11 | 11 | 11 | 11 | 8 | 7 | 12 |
| 23 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 5 | 5 | 3 | 5 | 7 | 9 | 4 | 4 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 2 | 5 |

TOTAL NUMBER OF OBSERVATIONS = 8302 MEAN = 0.

DIURNAL VARIATION OF WIND SPEED AT 200 FEET (MPH)
TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 9 | 6 | 9 | 12 | 10 | 10 | 12 | 6 | 6 | 7 | 11 | 11 | 13 | 14 | 11 | 13 | 7 | 5 | 5 | 7 | 7 | 8 | 7 | 5 | 9. |
| 2 | 3 | 4 | 4 | 6 | 6 | 7 | 5 | 2 | 2 | 4 | 5 | 5 | 4 | 7 | 9 | 7 | 7 | 4 | 7 | 6 | 6 | 9 | 7 | 7 | 6. |
| 3 | 5 | 5 | 2 | 4 | 2 | 1 | 5 | 0 | 0 | 5 | 2 | 3 | 6 | 5 | 6 | 8 | 3 | 8 | 7 | 7 | 2 | 5 | 5 | 7 | 6. |
| 4 | 7 | 7 | 1 | 2 | 2 | 2 | 4 | 4 | 4 | 3 | 2 | 2 | 3 | 2 | 5 | 6 | 6 | 2 | 3 | 3 | 1 | 1 | 3 | 7 | 3. |
| 5 | 1 | 5 | 1 | 3 | 1 | 2 | 6 | 2 | 4 | 10 | 10 | 13 | 13 | 11 | 7 | 12 | 10 | 12 | 13 | 6 | 2 | 4 | 3 | 7 | 3. |
| 6 | 0 | 0 | 1 | 1 | 3 | 3 | 6 | 10 | 12 | 11 | 12 | 14 | 12 | 12 | 11 | 10 | 13 | 8 | 7 | 7 | 9 | 4 | 14 | 10 | 3. |
| 7 | 0 | 1 | 1 | 1 | 3 | 3 | 6 | 10 | 12 | 11 | 12 | 14 | 12 | 12 | 11 | 10 | 13 | 8 | 7 | 7 | 9 | 4 | 14 | 10 | 3. |
| 8 | 4 | 2 | 3 | 4 | 3 | 3 | 6 | 10 | 12 | 11 | 12 | 14 | 12 | 12 | 11 | 10 | 13 | 8 | 7 | 7 | 9 | 4 | 14 | 10 | 3. |
| 9 | 4 | 2 | 3 | 4 | 3 | 3 | 6 | 10 | 12 | 11 | 12 | 14 | 12 | 12 | 11 | 10 | 13 | 8 | 7 | 7 | 9 | 4 | 14 | 10 | 3. |
| 10 | 6 | 6 | 7 | 6 | 5 | 6 | 6 | 1 | 1 | 2 | 1 | 3 | 5 | 8 | 2 | 6 | 4 | 10 | 4 | 9 | 8 | 5 | 6 | 4 | 5. |
| 11 | 6 | 6 | 7 | 6 | 5 | 6 | 6 | 1 | 1 | 2 | 1 | 3 | 5 | 8 | 2 | 6 | 4 | 10 | 4 | 9 | 8 | 5 | 6 | 4 | 5. |
| 12 | 7 | 5 | 7 | 7 | 12 | 8 | 5 | 13 | 12 | 10 | 11 | 16 | 10 | 12 | 13 | 15 | 17 | 16 | 6 | 3 | 3 | 18 | 19 | 15 | 12. |
| 13 | 9 | 5 | 6 | 15 | 10 | 6 | 5 | 5 | 6 | 8 | 5 | 9 | 6 | 7 | 3 | 13 | 14 | 11 | 14 | 5 | 5 | 6 | 7 | 13 | 8. |
| 14 | 9 | 5 | 6 | 15 | 10 | 6 | 5 | 5 | 6 | 8 | 5 | 9 | 6 | 7 | 3 | 13 | 14 | 11 | 14 | 5 | 5 | 6 | 7 | 13 | 8. |
| 15 | 15 | 10 | 2 | 3 | 2 | 2 | 3 | 4 | 1 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 11 | 14 | 2 | 1 | 3 | 2 | 4 | 4. |
| 16 | 4 | 4 | 7 | 4 | 3 | 5 | 5 | 4 | 3 | 3 | 5 | 11 | 16 | 13 | 12 | 14 | 10 | 8 | 11 | 13 | 7 | 5 | 16 | 12 | 21. |
| 17 | 4 | 4 | 7 | 4 | 3 | 5 | 5 | 4 | 3 | 3 | 5 | 11 | 16 | 13 | 12 | 14 | 10 | 8 | 11 | 13 | 7 | 5 | 16 | 12 | 21. |
| 18 | 5 | 5 | 3 | 2 | 2 | 2 | 5 | 27 | 6 | 28 | 3 | 25 | 21 | 26 | 26 | 19 | 19 | 21 | 9 | 10 | 12 | 12 | 5 | 6 | 10. |
| 19 | 5 | 5 | 3 | 2 | 2 | 2 | 5 | 27 | 6 | 28 | 3 | 25 | 21 | 26 | 26 | 19 | 19 | 21 | 9 | 10 | 12 | 12 | 5 | 6 | 10. |
| 20 | 3 | 3 | 11 | 7 | 10 | 7 | 14 | 10 | 9 | 12 | 16 | 18 | 17 | 17 | 14 | 13 | 10 | 7 | 10 | 11 | 8 | 12 | 7 | 7 | 12. |
| 21 | 3 | 3 | 11 | 7 | 10 | 7 | 14 | 10 | 9 | 12 | 16 | 18 | 17 | 17 | 14 | 13 | 10 | 7 | 10 | 11 | 8 | 12 | 7 | 7 | 12. |
| 22 | 3 | 3 | 11 | 7 | 10 | 7 | 14 | 10 | 9 | 12 | 16 | 18 | 17 | 17 | 14 | 13 | 10 | 7 | 10 | 11 | 8 | 12 | 7 | 7 | 12. |
| 23 | 1 | 1 | 15 | 11 | 7 | 5 | 5 | 3 | 1 | 4 | 2 | 4 | 2 | 1 | 1 | 2 | 4 | 6 | 5 | 4 | 2 | 2 | 1 | 3 | 5 |
| 24 | 1 | 1 | 15 | 11 | 7 | 5 | 5 | 3 | 1 | 4 | 2 | 4 | 2 | 1 | 1 | 2 | 4 | 6 | 5 | 4 | 2 | 2 | 1 | 3 | 5 |
| 25 | 1 | 1 | 15 | 11 | 7 | 5 | 5 | 3 | 1 | 4 | 2 | 4 | 2 | 1 | 1 | 2 | 4 | 6 | 5 | 4 | 2 | 2 | 1 | 3 | 5 |
| 26 | 7 | 7 | 9 | 8 | 7 | 9 | 12 | 11 | 10 | 5 | 7 | 13 | 13 | 7 | 32 | 5 | 8 | 11 | 12 | 16 | 18 | 13 | 4 | 6 | 8. |
| 27 | 7 | 7 | 9 | 8 | 7 | 9 | 12 | 11 | 10 | 5 | 7 | 13 | 13 | 7 | 32 | 5 | 8 | 11 | 12 | 16 | 18 | 13 | 4 | 6 | 8. |
| 28 | 7 | 7 | 9 | 8 | 7 | 9 | 12 | 11 | 10 | 5 | 7 | 13 | 13 | 7 | 32 | 5 | 8 | 11 | 12 | 16 | 18 | 13 | 4 | 6 | 8. |
| 29 | 7 | 7 | 9 | 8 | 7 | 9 | 12 | 11 | 10 | 5 | 7 | 13 | 13 | 7 | 32 | 5 | 8 | 11 | 12 | 16 | 18 | 13 | 4 | 6 | 8. |
| 30 | 7 | 7 | 9 | 8 | 7 | 9 | 12 | 11 | 10 | 5 | 7 | 13 | 13 | 7 | 32 | 5 | 8 | 11 | 12 | 16 | 18 | 13 | 4 | 6 | 8. |
| 31 | 7 | 7 | 9 | 8 | 7 | 9 | 12 | 11 | 10 | 5 | 7 | 13 | 13 | 7 | 32 | 5 | 8 | 11 | 12 | 16 | 18 | 13 | 4 | 6 | 8. |

TOTAL NUMBER OF OBSERVATIONS = 8378 MEAN = 8.

JOURNAL VARIATION OF WIND DIRECTION
 TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 1 | 112 | 117 | 113 | 124 | 127 | 101 | 92 | 95 | 112 | 120 | 162 | 166 | 185 | 190 | 218 | | 112 | 110 | 109 | 109 | 100 | 109 | 92 | 120 |
| 2 | 120 | 126 | 121 | 93 | 110 | 110 | 100 | 75 | 47 | 39 | 280 | 277 | 279 | 13 | 344 | 337 | 341 | 332 | 330 | 307 | 293 | 291 | 328 | 120 |
| 3 | 261 | 281 | 286 | 261 | 290 | 317 | 303 | 282 | 275 | 285 | 295 | 293 | 293 | 276 | 288 | 279 | 275 | 275 | 283 | 291 | 287 | 267 | 287 | 328 |
| 4 | 272 | 270 | 290 | 311 | 17 | 41 | 94 | 92 | 65 | 79 | 14 | 273 | | | 288 | 272 | 275 | 15 | 90 | 99 | 74 | 102 | 138 | 281 |
| 5 | 113 | 139 | 125 | 114 | 113 | 115 | 122 | 103 | 125 | 276 | 292 | | 282 | 291 | | 293 | 289 | 360 | 109 | 109 | 105 | 112 | 120 | 84 |
| 6 | 135 | 124 | 114 | 113 | 105 | 103 | 90 | 25 | 301 | 327 | 292 | 316 | 25 | 282 | 247 | 232 | 263 | 210 | 85 | 91 | 99 | 126 | 95 | 91 |
| 7 | 124 | 95 | 94 | 117 | 132 | 124 | 119 | 114 | 125 | 119 | 153 | 109 | 178 | 170 | 157 | 146 | 174 | 107 | 95 | 122 | 128 | 119 | 119 | 100 |
| 8 | 126 | 123 | 122 | 110 | 125 | 127 | 110 | 107 | 127 | 104 | 171 | 123 | 222 | 228 | | 303 | 350 | 104 | 80 | 85 | 80 | 99 | 101 | 101 |
| 9 | 94 | 107 | 55 | 40 | 80 | 45 | 40 | 24 | 113 | 121 | 349 | 349 | 164 | 147 | 349 | 45 | 87 | 58 | 110 | 105 | 116 | 131 | 131 | 101 |
| 10 | 131 | 131 | 130 | 131 | 131 | 131 | 131 | 126 | 126 | 99 | 92 | 78 | 62 | 153 | 59 | 107 | 300 | 90 | 349 | 28 | 78 | 92 | 108 | 92 |
| 11 | 94 | 111 | 110 | 53 | 80 | 50 | 50 | 61 | 131 | 143 | 329 | 252 | 262 | 280 | 290 | 107 | 300 | 90 | 125 | 87 | 90 | 115 | 84 | 87 |
| 12 | 120 | 120 | 120 | 131 | 120 | 133 | 120 | 121 | 127 | 116 | 99 | 155 | 163 | 184 | 186 | 110 | 93 | 82 | 87 | 83 | 120 | 103 | 95 | 110 |
| 13 | 113 | 107 | 117 | 113 | 112 | 90 | 94 | 114 | 134 | 130 | 90 | 309 | 339 | 333 | 277 | 336 | 10 | 89 | 95 | 96 | 92 | 95 | 55 | 98 |
| 14 | 105 | 103 | 110 | 94 | 95 | 119 | 120 | 122 | 125 | 132 | 115 | 113 | 107 | 223 | 150 | 181 | 75 | 111 | 110 | 113 | 99 | 97 | 95 | 98 |
| 15 | 102 | 90 | 82 | 76 | 122 | 79 | 77 | 52 | 44 | 94 | 111 | 98 | 94 | 269 | 265 | 263 | 288 | 60 | 107 | 105 | 98 | 105 | 106 | 88 |
| 16 | 102 | 90 | 90 | 120 | 120 | 110 | 120 | 122 | 139 | 137 | 99 | 105 | 267 | 251 | 137 | 125 | 60 | 100 | 101 | 91 | 105 | 120 | 131 | 130 |
| 17 | 120 | 132 | 127 | 123 | 100 | 127 | 120 | 120 | 103 | 120 | 134 | 106 | 207 | 191 | 211 | 245 | 244 | 111 | 120 | 122 | 109 | 114 | 106 | 96 |
| 18 | 125 | 121 | 107 | 92 | 70 | 92 | 131 | 109 | 145 | 160 | 167 | 204 | 133 | 213 | 245 | 245 | 300 | 96 | 90 | 275 | 314 | 66 | 92 | 88 |
| 19 | | | | | | | | | | | | | | | 252 | 292 | 332 | 86 | 109 | 100 | 105 | 105 | 110 | 96 |
| 20 | 130 | 124 | 130 | 120 | 130 | 129 | 130 | 133 | 133 | 128 | 112 | 132 | 160 | 158 | 161 | 167 | 140 | 97 | 117 | 129 | 114 | 120 | 125 | 123 |
| 21 | 110 | 114 | 125 | 95 | 124 | 132 | 130 | 125 | 119 | 132 | 181 | 171 | 182 | 177 | 181 | 194 | 121 | 95 | 125 | 98 | 94 | 96 | 105 | 175 |
| 22 | 90 | 117 | 131 | 95 | 305 | 31 | 111 | 106 | 94 | 135 | 158 | 182 | 197 | 221 | 230 | 265 | 253 | 58 | 119 | 314 | 285 | 333 | 291 | 142 |
| 23 | 200 | 203 | 200 | 325 | 325 | 31 | 45 | 70 | 79 | 64 | 298 | 283 | 284 | 257 | 179 | 180 | 84 | 88 | 118 | 126 | 132 | 130 | 130 | 86 |
| 24 | 132 | 135 | 131 | 128 | 136 | 100 | 121 | 119 | 127 | 133 | 130 | 100 | 165 | 194 | 193 | 161 | 125 | 95 | 126 | 104 | 116 | 124 | 127 | 125 |
| 25 | 120 | 131 | 130 | 120 | 120 | 120 | 120 | 135 | 111 | 102 | 174 | 166 | 197 | 234 | 233 | 246 | 260 | 307 | 69 | 101 | 96 | 100 | 105 | 101 |
| 26 | 121 | 112 | 120 | 120 | 120 | 120 | 131 | 120 | 120 | 131 | 99 | 26 | 101 | 273 | 276 | 287 | 20 | 102 | 90 | 100 | 95 | 112 | 95 | 117 |
| 27 | 125 | 125 | 115 | 121 | 131 | 127 | 129 | 130 | 124 | 120 | 103 | | 178 | 206 | 160 | 136 | 67 | 111 | 112 | 101 | 105 | 81 | 346 | 73 |
| 28 | 270 | 270 | 270 | 310 | 200 | 200 | 200 | 276 | 200 | 200 | 300 | 311 | 308 | 305 | 324 | 324 | 320 | 330 | 335 | 307 | 342 | 97 | 113 | 115 |
| 29 | 111 | 125 | 117 | 110 | 110 | 126 | 131 | 136 | 129 | 127 | 131 | 206 | 269 | 270 | 262 | 247 | 88 | 94 | 96 | 107 | 111 | 90 | 103 | 90 |
| 30 | 103 | 79 | 4 | 03 | 03 | 84 | 77 | 12 | 100 | 130 | 293 | 62 | 129 | 104 | 111 | 196 | 116 | 117 | 105 | 110 | 128 | 131 | 120 | 132 |

MEAN

117.117.270.270.102.102.100.

4. 85. 95. 97.100.106.105.107.

TOTAL NUMBER OF OBSERVATIONS = 5201 MEAN = 114.

JOURNAL VARIATION OF WIND DIRECTION
TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 122 | 123 | 137 | 113 | 117 | 124 | 121 | 114 | 125 | 140 | 176 | 359 | 335 | 354 | 169 | 171 | 156 | 136 | 119 | 117 | 140 | 134 | 112 | 96 |
| 2 | 75 | 144 | 111 | 95 | 205 | 315 | 367 | 53 | 81 | 355 | 325 | 336 | 334 | 335 | 341 | 342 | 351 | 338 | 333 | 325 | 322 | 314 | 313 | 310 |
| 3 | 311 | 230 | 202 | 322 | 335 | 325 | 329 | 341 | 337 | 335 | 338 | 338 | 335 | 329 | 310 | 314 | 319 | 329 | 274 | 254 | 310 | 301 | 310 | 298 |
| 4 | 205 | 202 | 202 | 200 | 209 | 291 | 201 | 201 | 205 | 153 | 124 | 35 | 69 | 25 | 185 | 309 | 278 | 357 | 140 | 127 | 149 | 149 | 94 | 91 |
| 5 | 135 | 133 | 45 | 42 | 42 | 42 | 65 | 107 | 14 | 337 | 335 | | 317 | 15 | 340 | 326 | 325 | 332 | 90 | 126 | 125 | | | 34 |
| 6 | 155 | 175 | 184 | 165 | 180 | 76 | 70 | 30 | 18 | 342 | 335 | 95 | 83 | 202 | 210 | 184 | 179 | 177 | 142 | 129 | 137 | 150 | 121 | 118 |
| 7 | 143 | 59 | 7 | 121 | 155 | 153 | 156 | 124 | 81 | 111 | 127 | 153 | 174 | 177 | 166 | 162 | 166 | 144 | 143 | 140 | 140 | 175 | 156 | 147 |
| 8 | 61 | 115 | 120 | 126 | 134 | 125 | 120 | 116 | 120 | 119 | 195 | 240 | 169 | 161 | 199 | 116 | 115 | 114 | 113 | 130 | 139 | 137 | 134 | 138 |
| 9 | 130 | 135 | 135 | 140 | 140 | 138 | 138 | 136 | 121 | 131 | 176 | 107 | 103 | 137 | 117 | 272 | 315 | 79 | 301 | 307 | 333 | 19 | 134 | 136 |
| 10 | 132 | 123 | 135 | 133 | 137 | 102 | 109 | 142 | 347 | 337 | 337 | 332 | 13 | 345 | 349 | 332 | 351 | 123 | 126 | 133 | 123 | 119 | 115 | 115 |
| 11 | 120 | 135 | 121 | 115 | 109 | 103 | 61 | 121 | 110 | 123 | 123 | 136 | 137 | 151 | 133 | 150 | 126 | 136 | 130 | 129 | 126 | 111 | 105 | 107 |
| 12 | 107 | 108 | 100 | 112 | 70 | 152 | 153 | 141 | 115 | 118 | 73 | 334 | 348 | 340 | 328 | 347 | 256 | 339 | 94 | 132 | 136 | 140 | 143 | 141 |
| 13 | 124 | 150 | 145 | 155 | 164 | 124 | 211 | 231 | 307 | 360 | 335 | 24 | 14 | 190 | 161 | 166 | 129 | 123 | 111 | 108 | 110 | 111 | 110 | 107 |
| 14 | 112 | 108 | 122 | 4 | 322 | 341 | 124 | 145 | 265 | 80 | 130 | 115 | 33 | 335 | 73 | 276 | 201 | 29 | 130 | 142 | 151 | 167 | 131 | 139 |
| 15 | 152 | 154 | 155 | 152 | 153 | 163 | 102 | 159 | 10 | 324 | 329 | 342 | 307 | 319 | 204 | 173 | 132 | 134 | 131 | 154 | 145 | 145 | 152 | 158 |
| 16 | 163 | 161 | 163 | 164 | 30 | 10 | 14 | 7 | 6 | 335 | 348 | 174 | 159 | 169 | 174 | 179 | 174 | 140 | 123 | 109 | 99 | 117 | 111 | 127 |
| 17 | 123 | 123 | 134 | 122 | 131 | 130 | 130 | 161 | 146 | 147 | 154 | 167 | 183 | 173 | 151 | 171 | 157 | 132 | 121 | 202 | 221 | 134 | 106 | 118 |
| 18 | 121 | 135 | 131 | 135 | 140 | 105 | 135 | 105 | 21 | 199 | 122 | 132 | 120 | 155 | 124 | 218 | 278 | 125 | 121 | 122 | 126 | 149 | 164 | 106 |
| 19 | 63 | 145 | 151 | 100 | 167 | 129 | 127 | 112 | 98 | 123 | 124 | 182 | 174 | 154 | 162 | 159 | 136 | 121 | 126 | 105 | 118 | 117 | 133 | 109 |
| 20 | 113 | 91 | 254 | 125 | 12 | 14 | 342 | 1 | 337 | 343 | 211 | 184 | 200 | 174 | 160 | 161 | 149 | 119 | 156 | 148 | 161 | 148 | 119 | 103 |
| 21 | 355 | 9 | 122 | 70 | 131 | 133 | 129 | 336 | 360 | 332 | 161 | 165 | 186 | 182 | 169 | 174 | 167 | 139 | 128 | 335 | 322 | 327 | 330 | 319 |
| 22 | 303 | 323 | 301 | 324 | 320 | 200 | 71 | 110 | 85 | 143 | 2 | 273 | 288 | 299 | 176 | 171 | 145 | 132 | 117 | 111 | 119 | 128 | 166 | 155 |
| 23 | 106 | 159 | 154 | 17 | 65 | 120 | 300 | 72 | 100 | 101 | 329 | 226 | 111 | 165 | 153 | 156 | 140 | 134 | 123 | 105 | 113 | 112 | 107 | 105 |
| 24 | 105 | 111 | 111 | 97 | 100 | 107 | 108 | 8 | 347 | 348 | 3 | 149 | 152 | 162 | | | | | | | | | | 97 |
| 25 | 139 | 154 | 130 | 127 | 153 | 125 | 160 | 150 | 122 | 110 | 111 | 125 | 164 | 204 | 312 | 306 | 328 | 135 | 135 | 157 | 166 | 166 | 160 | 163 |
| 26 | 140 | 200 | 20 | 20 | 20 | 330 | 300 | 40 | 115 | 80 | 132 | 152 | 148 | 167 | 145 | 148 | 132 | 128 | 118 | 90 | 89 | 142 | 306 | 160 |
| 27 | 315 | 301 | 200 | 315 | 315 | 325 | 335 | 320 | 326 | 335 | 341 | 340 | 343 | 333 | 340 | 346 | 344 | 345 | 343 | 346 | 342 | 308 | 237 | 135 |
| 28 | 130 | 130 | 156 | 160 | 160 | 160 | 174 | 150 | 154 | 112 | 108 | | | | | | | | | | | | | 149 |
| 29 | 50 | 32 | 60 | 105 | 80 | 73 | 09 | 65 | 60 | 333 | 331 | 332 | 95 | 116 | 134 | 170 | 147 | 121 | 111 | 126 | 172 | 179 | 241 | 358 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | 99 |

MEAN 124.120.137.117.126.109.110. 04. 56. 52. 64.143.125.193.161.201.175.113.122.125.134.138.133.124.

TOTAL NUMBER OF OBSERVATIONS = 6122 MEAN = 124.

JOURNAL VARIATION OF WIND DIRECTION
TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 37 | 75 | 76 | 79 | 75 | 107 | 121 | 93 | 95 | 128 | 146 | 139 | 158 | 138 | 142 | 112 | 114 | 132 | 133 | 119 | 115 | 104 | 86 | 98 | 112 |
| 2 | 72 | 74 | 55 | 121 | 102 | 93 | 63 | 318 | 47 | 68 | 119 | 207 | 278 | 250 | 272 | 265 | 265 | 257 | 254 | 250 | 265 | 280 | 257 | 273 | 270 |
| 3 | 254 | 253 | 105 | 75 | 47 | 36 | 92 | 102 | 78 | 152 | 275 | 321 | 300 | 250 | 272 | 265 | 265 | 257 | 254 | 250 | 265 | 280 | 257 | 273 | 270 |
| 4 | 100 | 111 | 99 | 95 | 99 | 101 | 101 | 82 | 83 | 121 | 259 | 211 | 250 | 262 | 263 | 284 | 247 | 192 | 53 | 90 | 79 | 58 | 104 | 92 | 84 |
| 5 | 102 | 97 | 104 | 51 | 74 | 75 | 80 | 92 | 108 | 279 | 272 | 278 | 97 | 242 | 255 | 244 | 115 | 125 | 74 | 51 | 77 | 99 | 110 | 102 | 103 |
| 6 | 94 | 75 | 102 | 119 | 110 | 102 | 113 | 111 | 109 | 173 | 148 | 126 | 151 | 155 | 125 | 122 | 122 | 82 | 96 | 105 | 103 | 109 | 102 | 110 | 115 |
| 7 | 105 | 104 | 109 | 111 | 111 | 109 | 105 | 96 | 97 | 102 | 104 | 270 | 202 | 177 | 121 | 271 | 357 | 90 | 79 | 39 | 67 | 73 | 89 | 57 | 92 |
| 8 | 103 | 104 | 95 | 91 | 91 | 87 | 71 | 60 | 74 | 57 | 93 | 253 | 202 | 177 | 121 | 271 | 357 | 90 | 81 | 107 | 100 | 67 | 79 | 78 | 93 |
| 9 | 103 | 104 | 101 | 95 | 94 | 102 | 217 | 102 | 323 | 111 | 103 | 248 | 234 | 216 | 138 | 139 | 137 | 74 | 307 | 89 | 90 | 147 | 45 | 4 | 105 |
| 10 | 72 | 104 | 101 | 95 | 94 | 102 | 217 | 102 | 323 | 111 | 103 | 248 | 234 | 216 | 138 | 139 | 137 | 74 | 307 | 89 | 90 | 147 | 45 | 4 | 105 |
| 11 | 10 | 93 | 98 | 95 | 95 | 95 | 94 | 91 | 94 | 96 | 14 | 272 | 269 | 271 | 264 | 253 | 119 | 82 | 98 | 91 | 100 | 107 | 109 | 110 | 88 |
| 12 | 107 | 104 | 110 | 109 | 110 | 111 | 109 | 109 | 107 | 108 | 108 | 107 | 105 | 111 | 114 | 100 | 116 | 94 | 72 | 70 | 82 | 81 | 89 | 72 | 101 |
| 13 | 111 | 91 | 105 | 86 | 83 | 107 | 103 | 104 | 107 | 105 | 109 | 202 | 330 | 316 | 283 | 301 | 278 | 09 | 86 | 66 | 60 | 88 | 82 | 84 | 84 |
| 14 | 84 | 70 | 85 | 103 | 85 | 95 | 104 | 103 | 103 | 103 | 94 | 160 | 321 | 283 | 161 | 192 | 116 | 70 | 69 | 72 | 95 | 72 | 73 | 81 | 98 |
| 15 | 94 | 104 | 95 | 102 | 110 | 110 | 102 | 97 | 95 | 102 | 77 | 137 | 211 | 292 | 200 | 143 | 96 | 66 | 65 | 96 | 109 | 93 | 101 | 109 | 101 |
| 16 | 104 | 105 | 111 | 111 | 112 | 112 | 105 | 94 | 91 | 102 | 120 | 143 | 217 | 253 | 192 | 213 | 137 | 89 | 95 | 96 | 75 | 129 | 112 | 113 | 112 |
| 17 | 103 | 103 | 113 | 112 | 113 | 114 | 115 | 117 | 111 | 111 | 137 | 154 | 217 | 253 | 192 | 213 | 137 | 89 | 95 | 102 | 107 | 108 | 65 | 90 | 123 |
| 18 | 85 | 85 | 87 | 79 | 122 | 114 | 104 | 120 | 132 | 126 | 112 | 179 | 93 | 339 | 272 | 280 | 135 | 66 | 50 | 266 | 257 | 11 | 68 | 25 | 62 |
| 19 | 85 | 85 | 87 | 79 | 122 | 114 | 104 | 120 | 132 | 126 | 112 | 179 | 93 | 339 | 272 | 280 | 135 | 66 | 50 | 266 | 257 | 11 | 68 | 25 | 62 |
| 20 | 100 | 110 | 106 | 112 | 110 | 109 | 112 | 111 | 104 | 114 | 111 | 113 | 143 | 150 | 216 | 114 | 117 | 94 | 104 | 107 | 108 | 106 | 104 | 108 | 115 |
| 21 | 106 | 106 | 105 | 107 | 110 | 109 | 107 | 106 | 101 | 95 | 137 | 139 | 190 | 252 | 149 | 124 | 104 | 85 | 102 | 95 | 95 | 82 | 85 | 87 | 111 |
| 22 | 101 | 105 | 85 | 93 | 93 | 101 | 100 | 98 | 107 | 115 | 122 | 145 | 160 | 175 | 266 | 278 | 285 | 07 | 115 | 161 | 264 | 227 | 267 | 274 | 137 |
| 23 | 209 | 207 | 203 | 271 | 252 | 270 | 328 | 356 | 20 | 87 | 52 | 285 | 263 | 225 | 124 | 131 | 94 | 74 | 92 | 112 | 104 | 89 | 88 | 89 | 59 |
| 24 | 100 | 100 | 100 | 104 | 104 | 113 | 110 | 111 | 109 | 109 | 108 | 98 | 133 | 244 | 255 | 137 | 77 | 79 | 106 | 90 | 84 | 100 | 105 | 101 | 108 |
| 25 | 100 | 100 | 100 | 104 | 104 | 113 | 110 | 111 | 109 | 109 | 108 | 98 | 133 | 244 | 255 | 137 | 77 | 79 | 106 | 90 | 84 | 100 | 105 | 101 | 108 |
| 26 | 100 | 100 | 100 | 104 | 104 | 113 | 110 | 111 | 109 | 109 | 108 | 98 | 133 | 244 | 255 | 137 | 77 | 79 | 106 | 90 | 84 | 100 | 105 | 101 | 108 |
| 27 | 100 | 100 | 100 | 104 | 104 | 113 | 110 | 111 | 109 | 109 | 108 | 98 | 133 | 244 | 255 | 137 | 77 | 79 | 106 | 90 | 84 | 100 | 105 | 101 | 108 |
| 28 | 100 | 100 | 100 | 104 | 104 | 113 | 110 | 111 | 109 | 109 | 108 | 98 | 133 | 244 | 255 | 137 | 77 | 79 | 106 | 90 | 84 | 100 | 105 | 101 | 108 |
| 29 | 100 | 100 | 100 | 104 | 104 | 113 | 110 | 111 | 109 | 109 | 108 | 98 | 133 | 244 | 255 | 137 | 77 | 79 | 106 | 90 | 84 | 100 | 105 | 101 | 108 |
| 30 | 100 | 100 | 100 | 104 | 104 | 113 | 110 | 111 | 109 | 109 | 108 | 98 | 133 | 244 | 255 | 137 | 77 | 79 | 106 | 90 | 84 | 100 | 105 | 101 | 108 |

MEAN 97. 95. 141. 99. 99. 99. 104. 99. 93. 110. 123. 182. 213. 249. 226. 218. 122. 82. 84. 91. 92. 94. 94. 88. 88.

TOTAL NUMBER OF OBSERVATIONS = 8318 MEAN = 105.

DIURNAL VARIATION OF WIND DIRECTION
TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 ME |
| 1 | 125 | 97 | 97 | 122 | 98 | 95 | 95 | 93 | 52 | 311 | 340 | 310 | 326 | 258 | 292 | 261 | 274 | 224 | 14 | 241 | 83 | 68 | 86 | 13 |
| 2 | 70 | 29 | 70 | 85 | 129 | 103 | 93 | 41 | 258 | 345 | 319 | 345 | 144 | 188 | 193 | 180 | 212 | 269 | 241 | 237 | 34 | 48 | 88 | 89 |
| 3 | 75 | 74 | 91 | 61 | 95 | 85 | 82 | 81 | 58 | 102 | 126 | 154 | 169 | 184 | 164 | 173 | 171 | 193 | 156 | 203 | 82 | 107 | 84 | 85 |
| 4 | 154 | 103 | 95 | 82 | 97 | 86 | 73 | 85 | 55 | 134 | 158 | 193 | 202 | 186 | 226 | 286 | 332 | 70 | 113 | 359 | 124 | 144 | 66 | 153 |
| 5 | 215 | 143 | 39 | 243 | 58 | 101 | 91 | 42 | 59 | 77 | 306 | 239 | 168 | 148 | 73 | 356 | 114 | 138 | 46 | 95 | 356 | 114 | 51 | 6 |
| 6 | 243 | 103 | 72 | 81 | 110 | 203 | 316 | 70 | 342 | 53 | 78 | 90 | 111 | 252 | 44 | 221 | 236 | 218 | 230 | 251 | 296 | 23 | 88 | 84 |
| 7 | 119 | 82 | 126 | 23 | 49 | 87 | 77 | 83 | 65 | 47 | 352 | 286 | 291 | 281 | 284 | 268 | 209 | 50 | 120 | 56 | 64 | 70 | 90 | 108 |
| 8 | 5 | 75 | 75 | 59 | 66 | 68 | 72 | 71 | 59 | 99 | 159 | 174 | 185 | 176 | 166 | 167 | 163 | 94 | 75 | 71 | 77 | 105 | 142 | 77 |
| 9 | 64 | 52 | 84 | 63 | 70 | 105 | 94 | 84 | 54 | 329 | 299 | 282 | 308 | 322 | 279 | 293 | 317 | 263 | 251 | 282 | 125 | 87 | 82 | 123 |
| 10 | 28 | 345 | 56 | 63 | 73 | 73 | 73 | 77 | 60 | 43 | 145 | 204 | 213 | 169 | 161 | 175 | 180 | 83 | 61 | 69 | 61 | 56 | 72 | 52 |
| 11 | 50 | 55 | 53 | 73 | 78 | 78 | 122 | 69 | 57 | 67 | 68 | 103 | 315 | 265 | 278 | 256 | 255 | 198 | 88 | 88 | 84 | 66 | 74 | 173 |
| 12 | 13 | 32 | 67 | 93 | 74 | 82 | 107 | 88 | 53 | 55 | 47 | 39 | 349 | 307 | 34 | 46 | 47 | 162 | 113 | 68 | 73 | 99 | 98 | 93 |
| 13 | 30 | 90 | 74 | 75 | 84 | 69 | 72 | 76 | 61 | 21 | 162 | 175 | 185 | | | | | | | | | | | |
| 14 | 206 | 235 | 79 | 43 | 102 | 113 | 122 | 99 | 346 | 56 | 4 | 281 | 252 | 177 | 182 | 198 | 205 | 210 | 144 | 152 | 255 | 157 | 67 | 299 |
| 15 | 23 | 27 | 75 | 74 | 91 | 75 | 80 | 81 | 68 | 81 | 197 | 172 | 168 | 226 | 250 | 265 | 241 | 194 | 113 | 63 | 67 | 59 | 65 | 75 |
| 16 | 100 | 80 | 62 | 60 | 88 | 91 | 69 | 71 | 32 | 122 | 167 | 165 | 170 | 172 | 178 | 167 | 134 | 112 | 98 | 84 | 73 | 93 | 79 | 84 |
| 17 | 41 | 53 | 124 | 57 | 80 | 96 | 110 | 130 | 112 | 127 | 136 | 172 | 166 | 181 | 159 | 155 | 125 | 114 | 102 | 98 | 85 | 114 | 95 | 57 |
| 18 | 23 | 22 | 304 | 321 | 345 | 349 | 262 | 353 | 324 | 341 | 288 | 282 | 293 | 204 | 200 | 212 | 207 | 152 | 148 | 189 | 264 | 171 | 292 | 271 |
| 19 | 22 | 27 | 75 | 86 | 73 | 79 | 66 | 83 | 83 | 69 | 39 | 94 | 107 | 204 | 121 | 129 | 154 | 130 | 106 | 83 | 91 | 84 | 87 | 79 |
| 20 | 21 | 51 | 75 | 73 | 73 | 81 | 84 | 61 | 104 | 118 | 57 | 144 | 166 | 165 | 177 | 199 | 202 | 149 | 96 | 71 | 61 | 70 | 65 | 70 |
| 21 | 91 | 60 | 125 | 143 | 102 | 88 | 88 | 120 | 68 | 42 | 76 | 146 | 275 | 228 | 259 | 261 | 287 | 206 | 223 | 241 | 217 | 68 | 44 | 207 |
| 22 | 71 | 74 | 77 | 77 | 83 | 93 | 101 | 100 | 93 | 56 | 36 | 170 | 175 | 196 | 163 | 181 | 189 | 185 | 129 | 80 | 89 | 81 | 87 | 84 |
| 23 | 109 | 271 | 277 | 354 | 268 | 270 | 267 | 263 | 281 | 288 | 290 | 292 | 292 | 290 | 301 | 303 | 209 | 289 | 226 | 249 | 232 | 242 | 261 | 203 |
| 24 | 25 | 185 | 85 | 75 | 72 | 77 | 75 | 74 | 82 | 75 | 21 | 300 | 279 | 359 | 321 | 352 | 82 | 52 | 9 | 60 | 87 | 75 | 85 | 89 |
| 25 | 21 | 59 | 83 | 94 | 83 | 88 | 85 | 88 | 71 | 54 | 9 | 50 | 104 | 86 | 130 | 182 | 153 | 116 | 90 | 94 | 106 | 98 | 102 | 94 |
| MEAN | 70. | 27. | 77. | 73. | 81. | 82. | 87. | 79. | 57. | 60. | 49. | 192. | 205. | 209. | 200. | 220. | 230. | 153. | 124. | 97. | 81. | 86. | 81. | 91. |

TOTAL NUMBER OF OBSERVATIONS = 7237 MEAN = 95.

DIRECTIONAL VARIATION OF WIND DIRECTION AT 8 FEET
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOURLY

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 246 | 224 | 210 | 230 | 230 | 240 | 153 | 193 | 42 | 79 | 103 | 76 | 119 | 360 | 302 | 311 | 289 | 259 | 225 | 227 | 211 | 232 | 326 | 215 | 259 |
| 2 | 184 | 142 | 93 | 106 | 119 | 99 | 77 | 58 | 66 | 17 | 201 | 208 | 2 | 360 | 74 | 74 | 36 | 189 | 206 | 51 | 70 | 136 | 170 | 190 | 143 |
| 3 | 122 | 231 | 207 | 213 | 133 | 201 | 196 | 109 | 191 | 196 | 199 | 208 | 218 | 218 | 207 | 214 | 225 | 160 | 135 | 168 | 106 | 63 | 215 | 199 | 152 |
| 4 | 345 | 347 | 330 | 339 | 334 | 339 | 340 | 339 | 339 | 341 | 39 | 325 | 225 | 225 | 225 | 228 | 242 | 223 | 228 | 265 | 279 | 292 | 10 | 322 | 219 |
| 5 | 112 | 133 | 115 | 95 | 125 | 154 | 154 | 119 | 131 | 188 | 214 | 207 | 210 | 215 | 218 | 210 | 269 | 227 | 212 | 212 | 153 | 230 | 80 | 107 | 322 |
| 6 | 155 | 153 | 148 | 115 | 121 | 105 | 104 | 127 | 160 | 206 | 203 | 201 | 203 | 216 | 196 | 194 | 175 | 169 | 148 | 133 | 115 | 122 | 113 | 124 | 154 |
| 7 | 145 | 177 | 178 | 79 | 154 | 194 | 184 | 175 | 149 | 132 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | |

MEAN = 172.150, 271.27, 175.155, 155.161, 120, 90, 155, 221, 239, 240, 225, 229, 220, 209, 205, 206, 196, 196, 128, 181.

TOTAL NUMBER OF OBSERVATIONS = 3926 MEAN = 180.

DAILY JOURNAL VARIATION OF WIND DIRECTION AT 30 FEET
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 ME | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 1 | 215 | 213 | 213 | 213 | 202 | 195 | 203 | 140 | 143 | 187 | 195 | 199 | 226 | 204 | 195 | 150 | 138 | 150 | 148 | 157 | 157 | 157 | 129 | 133 | 17 |
| 2 | 94 | 132 | 134 | 175 | 114 | 41 | 41 | 62 | 130 | 95 | 280 | 329 | 347 | 352 | 357 | 314 | 5 | 303 | 10 | 338 | 285 | 285 | 278 | 283 | 35 |
| 3 | 27 | 285 | 207 | 203 | 308 | 314 | 209 | 300 | 297 | 205 | 294 | 305 | 295 | 296 | 294 | 304 | 206 | 291 | 279 | 274 | 275 | 286 | 287 | 284 | 29 |
| 4 | 201 | 203 | 252 | 129 | 220 | 61 | 104 | 176 | 265 | 41 | 87 | 317 | 273 | 317 | 336 | 264 | 270 | 234 | 233 | 221 | 200 | 184 | 189 | 284 | 24 |
| 5 | 165 | 205 | 227 | 232 | 221 | 212 | 159 | 252 | 252 | 342 | 346 | 312 | 284 | 272 | 2 | 309 | 301 | 297 | 259 | 224 | 219 | 215 | 174 | 148 | 24 |
| 6 | 151 | 147 | 217 | 29 | 245 | 64 | 229 | 253 | 257 | 277 | 341 | 329 | 197 | 219 | 228 | 223 | 227 | 221 | 197 | 251 | 177 | 171 | 271 | 165 | 21 |
| 7 | 197 | 209 | 115 | 145 | 113 | 113 | 125 | 76 | 78 | 154 | 182 | 191 | 109 | 206 | 201 | 208 | 206 | 187 | 159 | 155 | 151 | 159 | 167 | 161 | 16 |
| 8 | 155 | 153 | 153 | 150 | 152 | 130 | 205 | 192 | 156 | 172 | 192 | 215 | 224 | 212 | 255 | 297 | 6 | 104 | 146 | 15 | 297 | 171 | 259 | 270 | 19 |
| 9 | 252 | 220 | 210 | 213 | 205 | 191 | 145 | 215 | 191 | 234 | 263 | 237 | 180 | 145 | 351 | 199 | 204 | 203 | 196 | 196 | 196 | 195 | 195 | 195 | 21 |
| 10 | 120 | 195 | 193 | 126 | 190 | 195 | 155 | 195 | 195 | 139 | 148 | 154 | 257 | 213 | 65 | 243 | 251 | 221 | 246 | 278 | 315 | 61 | 107 | 137 | 19 |
| 11 | 167 | 133 | 167 | 125 | 150 | 155 | 225 | 143 | 69 | 44 | 327 | 315 | 348 | 335 | 347 | 357 | 337 | 220 | 187 | 205 | 195 | 121 | 83 | 92 | 150 |
| 12 | 105 | 100 | 123 | 155 | 135 | 117 | 130 | 211 | 184 | 192 | 197 | 328 | 342 | 353 | 325 | 331 | 344 | 253 | 277 | 256 | 266 | 93 | 125 | 156 | 170 |
| 13 | 182 | 215 | 133 | 179 | 110 | 133 | 196 | 98 | 264 | 293 | 313 | 320 | 205 | 208 | 200 | 200 | 195 | 182 | 120 | 145 | 175 | 197 | 193 | 196 | 170 |
| 14 | 130 | 171 | 159 | 184 | 174 | 146 | 125 | 98 | 101 | 198 | 221 | 242 | 218 | 206 | 194 | 210 | 199 | 203 | 198 | 158 | 147 | 77 | 119 | 186 | 170 |
| 15 | 175 | 35 | 62 | 133 | 100 | 132 | 203 | 92 | 85 | 99 | 136 | 158 | 360 | 348 | 285 | 305 | 281 | 267 | 219 | 211 | 198 | 226 | 324 | 218 | 169 |
| 16 | 250 | 224 | 224 | 237 | 58 | 239 | 140 | 175 | 40 | 80 | 100 | 63 | 6 | 334 | 65 | 65 | 29 | 185 | 192 | 76 | 90 | 115 | 158 | 147 | 118 |
| 17 | 171 | 132 | 100 | 100 | 121 | 101 | 99 | 94 | 68 | 13 | 198 | 203 | 215 | 214 | 204 | 210 | 204 | 159 | 150 | 169 | 105 | 68 | 204 | 184 | 150 |
| 18 | 145 | 197 | 107 | 100 | 101 | 100 | 103 | 105 | 126 | 191 | 195 | 204 | 194 | 223 | 226 | 238 | 220 | 225 | 258 | 258 | 273 | 284 | 330 | 322 | 215 |
| 19 | 313 | 312 | 312 | 312 | 312 | 312 | 312 | 312 | 312 | 312 | 25 | 319 | 206 | 211 | 214 | 297 | 170 | 155 | 134 | 123 | 107 | 123 | 109 | 117 | 288 |
| 20 | 110 | 120 | 115 | 115 | 136 | 165 | 154 | 125 | 131 | 182 | 210 | 202 | 206 | 211 | 214 | 207 | 170 | 155 | 134 | 123 | 107 | 123 | 109 | 119 | 150 |
| 21 | 145 | 151 | 147 | 123 | 122 | 109 | 107 | 123 | 155 | 109 | 104 | 105 | 193 | 212 | 194 | 191 | 186 | 129 | 134 | 141 | 152 | 142 | 172 | 184 | 159 |
| 22 | 132 | 173 | 172 | 114 | 171 | 157 | 157 | 154 | 144 | 150 | 184 | 210 | 201 | 200 | 226 | 233 | 228 | 203 | 182 | 216 | 285 | 260 | 342 | 311 | 196 |
| 23 | 320 | 321 | 347 | 355 | 9 | 30 | 27 | 27 | 27 | 23 | 335 | 323 | 312 | 201 | 190 | 179 | 204 | 192 | 275 | 189 | 206 | 207 | 159 | 149 | 201 |
| 24 | 157 | 225 | 352 | 130 | 170 | 185 | 154 | 87 | 148 | 86 | 61 | 177 | 228 | 228 | 214 | 212 | 202 | 184 | 185 | 140 | 98 | 108 | 104 | 125 | 159 |
| 25 | 110 | 110 | 110 | 127 | 129 | 123 | 127 | 116 | 167 | 136 | 222 | 197 | 201 | 200 | 210 | 233 | 234 | 247 | 251 | 246 | 245 | 81 | 247 | 177 | 170 |
| 26 | 215 | 220 | 214 | 213 | 225 | 241 | 254 | 200 | 182 | 37 | 33 | 251 | 319 | 283 | 303 | 325 | 266 | 213 | 181 | 292 | 100 | 114 | 115 | 236 | 236 |
| 27 | 20 | 20 | 100 | 110 | 120 | 130 | 137 | 140 | 133 | 82 | 176 | 201 | 206 | 205 | 196 | 214 | 187 | 201 | 191 | 313 | 238 | 256 | 294 | 238 | 174 |
| 28 | 150 | 242 | 324 | 327 | 312 | 307 | 300 | 302 | 304 | 317 | 336 | 332 | 339 | 339 | 345 | 343 | 335 | 314 | 288 | 279 | 276 | 284 | 265 | 246 | 310 |
| 29 | 205 | 233 | 222 | 152 | 215 | 201 | 161 | 207 | 75 | 107 | 39 | 341 | 336 | 355 | 348 | 4 | 151 | 208 | 206 | 123 | 320 | 197 | 95 | 254 | 203 |
| 30 | 205 | 142 | 261 | 143 | 191 | 217 | 140 | 207 | 97 | 63 | 338 | 229 | 186 | 128 | 202 | 210 | 190 | | | | | | | | 187 |

MEAN 152.107.270.270.170.153.140.122.229.249.250.239.245.252.236.212.200.202.215.179.159.188.

TOTAL NUMBER OF OBSERVATIONS = 8363 MEAN = 197.

JOURNAL VARIATION OF WIND DIRECTION AT 100 FEET
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 101 | 223 | 282 | 224 | 100 | 161 | 195 | 143 | 137 | 176 | 186 | 189 | 193 | 192 | 184 | 136 | 128 | 137 | 125 | 149 | 149 | 127 | 120 | 168 |
| 2 | 75 | 95 | 115 | 147 | 116 | 161 | 122 | 257 | 115 | 86 | 277 | 325 | 342 | 345 | 351 | 312 | 2 | 314 | 360 | 335 | 286 | 277 | 275 | 278 |
| 3 | 276 | 282 | 245 | 291 | 322 | 309 | 295 | 296 | 292 | 289 | 290 | 288 | 290 | 290 | 289 | 297 | 291 | 286 | 276 | 271 | 274 | 284 | 284 | 281 |
| 4 | 241 | 240 | 300 | 185 | 225 | 41 | 124 | 147 | 60 | 45 | 47 | 315 | 267 | 300 | 325 | 260 | 269 | 239 | 239 | 265 | 159 | 106 | 140 | 281 |
| 5 | 72 | 247 | 234 | 250 | 293 | 5 | 156 | 181 | 306 | 347 | 351 | 300 | 269 | 276 | 354 | 306 | 296 | 308 | 297 | 254 | 320 | 17 | 59 | 90 |
| 6 | 135 | 143 | 332 | 64 | 246 | 42 | 10 | 280 | 254 | 267 | 353 | 321 | 193 | 210 | 223 | 212 | 218 | 214 | 165 | 255 | 244 | 150 | 171 | 158 |
| 7 | 151 | 105 | 94 | 127 | 118 | 111 | 140 | 144 | 101 | 155 | 169 | 179 | 187 | 198 | 191 | 197 | 194 | 172 | 144 | 128 | 125 | 143 | 150 | 135 |
| 8 | 120 | 131 | 162 | 135 | 130 | 141 | 183 | 160 | 150 | 160 | 182 | 204 | 213 | 202 | 256 | 285 | 353 | 81 | 116 | 43 | 327 | 161 | 238 | 257 |
| 9 | 246 | 219 | 64 | 313 | 346 | 304 | 180 | 215 | 197 | 234 | 259 | 208 | 156 | 156 | 135 | 356 | 123 | 164 | 163 | 158 | 158 | 158 | 158 | 157 |
| 10 | 151 | 153 | 153 | 159 | 154 | 154 | 156 | 158 | 172 | 94 | 126 | 140 | 297 | 204 | 58 | 242 | 247 | 208 | 234 | 273 | 309 | 40 | 89 | 113 |
| 11 | 121 | 110 | 131 | 130 | 132 | 140 | 151 | 137 | 81 | 43 | 337 | 311 | 339 | 329 | 338 | 349 | 330 | 28 | 140 | 191 | 186 | 163 | 150 | 127 |
| 12 | 151 | 127 | 156 | 173 | 173 | 165 | 155 | 185 | 179 | 182 | 186 | 324 | 333 | 345 | 317 | 323 | 349 | 175 | 134 | 153 | 173 | 190 | 183 | 190 |
| 13 | 191 | 109 | 131 | 175 | 131 | 175 | 224 | 329 | 284 | 284 | 322 | 234 | 333 | 345 | 317 | 323 | 349 | 200 | 308 | 292 | 349 | 71 | 91 | 124 |
| 14 | 121 | 143 | 147 | 155 | 153 | 171 | 189 | 189 | 159 | 195 | 213 | 233 | 214 | 108 | 181 | 199 | 189 | 190 | 170 | 172 | 155 | 113 | 150 | 170 |
| 15 | 170 | 146 | 116 | 159 | 182 | 114 | 197 | 74 | 76 | 83 | 118 | 153 | 300 | 343 | 284 | 301 | 275 | 281 | 229 | 218 | 201 | 234 | 208 | 249 |
| 16 | 265 | 252 | 235 | 184 | 158 | 329 | 94 | 140 | 125 | 74 | 86 | 59 | 353 | 332 | 46 | 64 | 42 | 174 | 174 | 129 | 103 | 75 | 139 | 136 |
| 17 | 163 | 124 | 139 | 113 | 148 | 115 | 115 | 98 | 83 | 92 | 189 | 195 | 207 | 207 | 196 | 203 | 195 | 167 | 158 | 163 | 122 | 98 | 188 | 163 |
| 18 | 223 | 167 | 160 | 190 | 170 | 100 | 182 | 153 | 174 | 178 | 185 | 193 | 183 | 199 | 210 | 214 | 227 | 210 | 215 | 252 | 262 | 248 | 33 | 304 |
| 19 | 321 | 203 | 9 | 254 | 176 | 95 | 117 | 134 | 284 | 75 | 18 | 320 | | | 305 | 264 | 252 | 209 | 197 | 187 | 161 | 173 | 152 | 129 |
| 20 | 125 | 133 | 123 | 120 | 132 | 158 | 150 | 133 | 135 | 170 | 200 | 122 | 195 | 199 | 203 | 195 | 158 | 133 | 117 | 117 | 102 | 121 | 120 | 114 |
| 21 | 110 | 134 | 145 | 134 | 122 | 100 | 114 | 132 | 154 | 194 | 190 | 187 | 190 | 205 | 188 | 183 | 159 | 114 | 121 | 132 | 143 | 142 | 163 | 169 |
| 22 | 167 | 151 | 157 | 150 | 162 | 151 | 162 | 147 | 134 | 140 | 172 | 200 | 191 | 189 | 216 | 222 | 217 | 198 | 177 | 206 | 278 | 272 | 333 | 307 |
| 23 | 313 | 315 | 339 | 340 | 2 | 2 | 297 | 343 | 300 | 350 | 330 | 318 | 311 | 200 | 165 | 159 | 189 | 177 | 178 | 159 | 291 | 150 | 77 | 144 |
| 24 | 172 | 213 | 311 | 72 | 154 | 162 | 210 | 94 | 123 | 83 | 58 | 154 | 218 | 215 | 273 | 202 | 189 | 174 | 177 | 153 | 126 | 122 | 134 | 140 |
| 25 | 126 | 118 | 116 | 124 | 115 | 113 | 122 | 120 | 157 | 130 | 213 | 187 | 180 | 189 | 200 | | 222 | 223 | 245 | 248 | 241 | 241 | 330 | 263 |
| 26 | 228 | 243 | 230 | 223 | 233 | 251 | 325 | 174 | 176 | 57 | 36 | 262 | 379 | 274 | 297 | | 319 | 6 | 213 | 184 | 323 | 99 | 117 | 110 |
| 27 | 119 | 125 | 115 | 121 | 113 | 124 | 122 | 133 | 123 | 77 | 169 | 187 | 197 | 184 | 187 | 205 | 196 | 186 | 187 | 326 | 262 | 326 | 299 | 283 |
| 28 | 125 | 350 | 321 | 356 | 310 | 323 | 320 | 298 | 208 | 311 | 324 | 326 | 332 | 331 | 337 | 336 | 330 | 313 | 287 | 282 | 275 | 283 | 278 | 266 |
| 29 | 253 | 245 | 223 | 220 | 7 | 109 | 174 | 325 | 44 | 101 | 37 | 338 | 329 | 350 | 337 | 359 | 22 | 200 | 169 | 118 | 349 | 179 | 48 | 335 |
| 30 | 245 | 75 | 250 | 125 | 10 | 219 | 113 | 140 | 93 | 63 | 341 | 105 | 165 | 117 | 190 | 198 | 179 | | | | | | | 150 |

MEAN = 169.158, 270.271, 144.133, 152.156, 143.111, 284.242, 241.229, 236.242, 230.201, 187.196, 217.153, 142.175,

TOTAL NUMBER OF OBSERVATIONS = 8363 MEAN = 181.

DAILY VARIATION OF WIND DIRECTION AT 200 FEET
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 217 | 225 | 224 | 221 | 215 | 211 | 214 | 173 | 164 | 199 | | 204 | 207 | 210 | 209 | 201 | 157 | 151 | 162 | 142 | 170 | 173 | 151 | 142 | 189. |
| 2 | 75 | 82 | 117 | 154 | 114 | 109 | 151 | 216 | 140 | 105 | 288 | 332 | 352 | 352 | 358 | 319 | 11 | 333 | 11 | 347 | 308 | 296 | 295 | 295 | 1. |
| 3 | 293 | 298 | 311 | 325 | 316 | 324 | 313 | 311 | 307 | 304 | 304 | 309 | 304 | 303 | 301 | 307 | 302 | 299 | 292 | 284 | 293 | 300 | 297 | 298 | 302. |
| 4 | 290 | 300 | 331 | 290 | 205 | 15 | 179 | 132 | 35 | 65 | 37 | 310 | 291 | 319 | 339 | 272 | 282 | 262 | 280 | 323 | 171 | 100 | 127 | 298 | 312. |
| 5 | 50 | 61 | 329 | 329 | 4 | 48 | 89 | 148 | 124 | 15 | 356 | 336 | 299 | 285 | 2 | 315 | 326 | 330 | 325 | 302 | 360 | 38 | 77 | 134 | 3. |
| 6 | 129 | 135 | 174 | 68 | 135 | 153 | 47 | 293 | 278 | 249 | 16 | 328 | 206 | 231 | 246 | 224 | 236 | 234 | 210 | 273 | 259 | 177 | 175 | 198 | 214. |
| 7 | 183 | 193 | 131 | 174 | 162 | 172 | 182 | 187 | 175 | 181 | 189 | 201 | 207 | 220 | 211 | 210 | 213 | 194 | 166 | 150 | 146 | 165 | 164 | 150 | 181. |
| 8 | 145 | 148 | 152 | 150 | 156 | 171 | 171 | 177 | 170 | 163 | 204 | 225 | 233 | 222 | 276 | 309 | 5 | 83 | 116 | 71 | 350 | 193 | 242 | 261 | 184. |
| 9 | 284 | 345 | 44 | 345 | 4 | 47 | 163 | 249 | 270 | 268 | 277 | 233 | 136 | 142 | 1 | 263 | 270 | 228 | 255 | 306 | 328 | 37 | 91 | 112 | 138. |
| 10 | 116 | 115 | 115 | 116 | 116 | 116 | 116 | 115 | 116 | 114 | 140 | 163 | 291 | 226 | 85 | 263 | 270 | 228 | 255 | 306 | 328 | 37 | 91 | 112 | 138. |
| 11 | 124 | 129 | 127 | 135 | 134 | 148 | 157 | 155 | 112 | 62 | 356 | 325 | 345 | 333 | 347 | 358 | 339 | 28 | 129 | 214 | 211 | 205 | 211 | 197 | 131. |
| 12 | 223 | 192 | 195 | 198 | 216 | 199 | 198 | 224 | 205 | 203 | 209 | 217 | 213 | 209 | 208 | 208 | 202 | 195 | 186 | 184 | 206 | 210 | 202 | 211 | 202. |
| 13 | 218 | 219 | 131 | 272 | 150 | 211 | 274 | 311 | 279 | 291 | 307 | 325 | 342 | 355 | 321 | 331 | 358 | 318 | 331 | 316 | 14 | 58 | 83 | 104 | 308. |
| 14 | 114 | 116 | 145 | 155 | 158 | 177 | 191 | 211 | 213 | 217 | 234 | 261 | 221 | 215 | 199 | 215 | 207 | 209 | 197 | 200 | 221 | 189 | 193 | 199 | 195. |
| 15 | 202 | 254 | 168 | 158 | 110 | 122 | 210 | 94 | 67 | 74 | 134 | 172 | 360 | 352 | 207 | 305 | 283 | 302 | 257 | 260 | 216 | 268 | 277 | 321 | 231. |
| 16 | 313 | 294 | 276 | 197 | 272 | 278 | 64 | 135 | 133 | 97 | 90 | 60 | 348 | 336 | 57 | 70 | 56 | 186 | 190 | 185 | 279 | 49 | 153 | 160 | 123. |
| 17 | 178 | 159 | 104 | 145 | 125 | 177 | 168 | 158 | 146 | 213 | 204 | 209 | 220 | 218 | 210 | 217 | 210 | 192 | 194 | 184 | 169 | 188 | 212 | 188 | 187. |
| 18 | 263 | 278 | 207 | 212 | 271 | 279 | 204 | 204 | 195 | 200 | 207 | 213 | 203 | 216 | 229 | 233 | 246 | 229 | 235 | 272 | 283 | 269 | 336 | 323 | 229. |
| 19 | 342 | 326 | 325 | 326 | 334 | 334 | 336 | 336 | 336 | 331 | 31 | 329 | | | 321 | 281 | 258 | 224 | 221 | 200 | 183 | 194 | 195 | 178 | 297. |
| 20 | 167 | 174 | 161 | 159 | 165 | 178 | 175 | 166 | 164 | 189 | 218 | 210 | 212 | 216 | 219 | 211 | 175 | 149 | 140 | 142 | 134 | 150 | 157 | 148 | 174. |
| 21 | 150 | 154 | 172 | 156 | 152 | 142 | 153 | 162 | 191 | 203 | 204 | 202 | 204 | 218 | 203 | 197 | 178 | 138 | 148 | 156 | 165 | 173 | 187 | 190 | 175. |
| 22 | 165 | 181 | 177 | 175 | 174 | 191 | 179 | 165 | 163 | 160 | 191 | 216 | 208 | 205 | 234 | 237 | 234 | 219 | 202 | 230 | 306 | 313 | 354 | 332 | 286. |
| 23 | 330 | 331 | 350 | | | 357 | | | | 357 | 342 | 339 | 326 | 237 | 171 | 175 | 207 | 193 | 189 | 179 | 215 | 199 | 10 | 9 | 285. |
| 24 | 9 | 9 | 9 | 9 | 9 | 9 | 157 | 127 | 88 | 81 | 76 | 177 | 234 | 231 | 222 | 217 | 206 | 197 | 198 | 185 | 175 | 185 | 187 | 175 | 172. |
| 25 | 150 | 151 | 153 | 149 | 139 | 136 | 131 | 157 | 177 | 152 | 229 | 205 | 208 | 207 | 218 | | 241 | 242 | 275 | 274 | 262 | 262 | 312 | 279 | 203. |
| 26 | 247 | 255 | 240 | 243 | 261 | 271 | 330 | 243 | 215 | 148 | 50 | 280 | 310 | 275 | 302 | | 325 | 15 | 246 | 201 | 232 | 163 | 172 | 155 | 252. |
| 27 | 158 | 173 | 159 | 141 | 156 | 146 | 146 | 163 | 151 | 107 | 207 | 205 | 213 | 209 | 205 | 239 | 213 | 215 | 205 | 298 | 329 | 350 | 314 | 17 | 189. |
| 28 | 134 | 16 | 135 | 13 | 320 | 314 | 309 | 308 | 308 | 317 | 328 | 329 | 338 | 336 | 344 | 345 | 339 | 324 | 302 | 301 | 291 | 299 | 302 | 297 | 323. |
| 29 | 201 | 253 | 255 | 257 | 22 | 154 | 221 | 41 | 43 | 124 | 52 | 348 | | 356 | 346 | 2 | 17 | 38 | 93 | 115 | 133 | 203 | 304 | 15 | 13. |
| 30 | 324 | 31 | 293 | 178 | 49 | 151 | 147 | 212 | 118 | 90 | 3 | 232 | 193 | 135 | 206 | 214 | 198 | | | | | | | | 171. |

MEAN 191.180.270.270.159.160.170.182.163.166.255.259.254.248.253.259.256.222.207.222.230.198.202.199.

TOTAL NUMBER OF OBSERVATIONS = 8293 MEAN = 210.

DIURNAL VARIATION OF RELATIVE HUMIDITY
TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

| | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEAN |
| 85 | 84 | 82 | 82 | 82 | 82 | 84 | 84 | 85 | 79 | 79 | 67 | 72 | 71 | 55 | 47 | 48 | 55 | 64 | 72 | 75 | 76 | 77 | 82 | 83 |
| 84 | 84 | 82 | 82 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 61 | 54 | 54 | 50 | 47 | 49 | 53 | 57 | 62 | 71 | 81 | 84 | 84 | 83 |
| 83 | 83 | 83 | 81 | 84 | 84 | 84 | 84 | 82 | 81 | 81 | 81 | 82 | 83 | 84 | 84 | 84 | 82 | 82 | 83 | 84 | 84 | 84 | 83 | 81 |
| 76 | 79 | 81 | 81 | 82 | 82 | 82 | 83 | 82 | 82 | 78 | 61 | 56 | 53 | 48 | 44 | 44 | 42 | 51 | 65 | 79 | 82 | 82 | 82 | 82 |
| 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 78 | 67 | 45 | 40 | 37 | 34 | 33 | 36 | 47 | 67 | 83 | 81 | 82 | 82 | 82 |
| 85 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 81 | 71 | 53 | 34 | 29 | 31 | 28 | 26 | 26 | 29 | 40 | 65 | 79 | 63 | 82 | 82 |
| 81 | 82 | 82 | 82 | 82 | 84 | 81 | 82 | 81 | 68 | 52 | 38 | 31 | 28 | 29 | 27 | 25 | 25 | 29 | 50 | 70 | 75 | 76 | 79 | 82 |
| 74 | 80 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 76 | 73 | 77 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 74 |
| 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 75 | 71 | 60 | 44 | 44 | 39 | 35 | 45 | 54 | 48 | 54 | 66 | 79 | 81 |
| 82 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 82 | 74 | 69 | 40 | 29 | 24 | 22 | 20 | 20 | 24 | 42 | 67 | 69 | 69 | 70 | 71 |
| 79 | 80 | 73 | 73 | 76 | 76 | 71 | 67 | 66 | 59 | 47 | 35 | 29 | 25 | 25 | 25 | 25 | 26 | 33 | 41 | 46 | 50 | 53 | 54 | 54 |
| 52 | 51 | 52 | 52 | 56 | 62 | 73 | 79 | 78 | 63 | 59 | 39 | 29 | 26 | 29 | 29 | 28 | 31 | 37 | 58 | 73 | 79 | 82 | 82 | 82 |
| 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 73 | 65 | 44 | 29 | 23 | 22 | 24 | 28 | 37 | 46 | 51 | 54 | 60 | 64 | 64 |
| 55 | 62 | 63 | 63 | 71 | 76 | 79 | 80 | 82 | 75 | 68 | 62 | 46 | 35 | 31 | 29 | 25 | 25 | 29 | 54 | 73 | 76 | 79 | 81 | 81 |
| 84 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 74 | 55 | 39 | 30 | 25 | 22 | 22 | 22 | 25 | 39 | 62 | 69 | 74 | 77 | 77 |
| 74 | 80 | 79 | 79 | 80 | 81 | 81 | 81 | 81 | 80 | 70 | 53 | 32 | 24 | 21 | 22 | 20 | 19 | 21 | 26 | 32 | 41 | 46 | 47 | 46 |
| 41 | 45 | 47 | 47 | 47 | 44 | 42 | 41 | 41 | 38 | 36 | 36 | 41 | 48 | 43 | 40 | 39 | 57 | 81 | 80 | 78 | 75 | 80 | 81 | 81 |
| 81 | 82 | 82 | 82 | 82 | 82 | 81 | 82 | 82 | 82 | 79 | 74 | 52 | 39 | 35 | 33 | 29 | 28 | 31 | 47 | 68 | 72 | 77 | 73 | 81 |
| 77 | 81 | 81 | 81 | 81 | 82 | 80 | 81 | 75 | 65 | 48 | 34 | 27 | 23 | 22 | 20 | 19 | 20 | 23 | 26 | 30 | 33 | 37 | 37 | 39 |
| 44 | 43 | 44 | 44 | 47 | 55 | 72 | 71 | 75 | 61 | 52 | 32 | 23 | 21 | 19 | 19 | 19 | 20 | 23 | 30 | 43 | 58 | 62 | 55 | 49 |
| 72 | 75 | 77 | 77 | 81 | 81 | 81 | 81 | 81 | 73 | 52 | 41 | 28 | 25 | 24 | 25 | 25 | 26 | 31 | 42 | 58 | 70 | 78 | 81 | 81 |
| 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 79 | 58 | 46 | 47 | 50 | 63 | 80 | 81 | 81 | 81 | 81 | 81 | 81 |
| 83 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 76 | 68 | 57 | 39 | 32 | 31 | 30 | 34 | 57 | 77 | 74 | 73 | 74 | 73 | 71 |
| 71 | 62 | 65 | 65 | 64 | 62 | 64 | 70 | 71 | 71 | 65 | 46 | 29 | 25 | 24 | 27 | 25 | 25 | 27 | 37 | 61 | 71 | 76 | 78 | 79 |
| 83 | 84 | 83 | 83 | 82 | 84 | 84 | 84 | 84 | 84 | 84 | 49 | 40 | 35 | 31 | 27 | 25 | 25 | 27 | 37 | 61 | 71 | 76 | 78 | 79 |
| 73 | 76 | 81 | 81 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 35 | 27 | 23 | 22 | 19 | 19 | 19 | 20 | 22 | 26 | 32 | 43 | 54 | 82 |
| 83 | 84 | 83 | 83 | 83 | 83 | 78 | 77 | 83 | 83 | 82 | 77 | 67 | 60 | 53 | 45 | 43 | 43 | 43 | 41 | 44 | 45 | 48 | 56 | 78 |
| 62 | 83 | 83 | 83 | 82 | 82 | 82 | 82 | 82 | 81 | 72 | 63 | 51 | 39 | 32 | 28 | 28 | 29 | 33 | 39 | 45 | 62 | 69 | 73 | 74 |
| 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 78 | 64 | 51 | 39 | 32 | 28 | 28 | 29 | 33 | 39 | 45 | 62 | 69 | 73 | 74 |

MEAN 75. 77. 77. 77. 79.

TOTAL NUMBER OF OBSERVATIONS = 8123 MEAN = 63.

DIURNAL VARIATION OF RELATIVE HUMIDITY
TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| AY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 95 | 98 | 98 | 96 | 97 | 96 | 98 | 99 | 93 | 77 | 72 | 66 | 59 | 54 | 55 | 69 | 70 | 72 | 79 | 85 | 90 | 92 | 95 | 98 | 8 |
| 2 | 95 | 100 | 100 | 100 | 100 | 100 | 100 | 99 | 95 | 80 | 63 | 56 | 52 | 53 | 49 | 49 | 52 | 62 | 100 | 100 | 100 | 100 | 100 | 100 | 8 |
| 3 | 96 | 94 | 96 | 96 | 96 | 97 | 96 | 97 | 92 | 72 | 65 | 61 | 61 | 61 | 51 | 47 | 52 | 62 | 100 | 100 | 100 | 100 | 100 | 100 | 99 |
| 4 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 75 | 60 | 50 | 43 | 40 | 39 | 38 | 41 | 50 | 79 | 88 | 90 | 90 | 90 | 90 | 92 |
| 5 | 93 | 93 | 94 | 95 | 95 | 95 | 94 | 92 | 82 | 75 | 58 | 48 | 42 | 38 | 35 | 36 | 38 | 45 | 64 | 78 | 84 | 85 | 88 | 88 | 70 |
| 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 89 | 82 | 65 | 44 | 39 | 36 | 34 | 32 | 31 | 33 | 44 | 65 | 59 | 77 | 80 | 84 | 89 | 66 |
| 7 | 82 | 83 | 85 | 85 | 80 | 80 | 80 | 86 | 76 | 56 | 40 | 37 | 41 | 35 | 34 | 38 | 51 | 62 | 77 | 83 | 82 | 79 | 80 | 78 | 72 |
| 8 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 72 |
| 9 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 98 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 11 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 86 | 83 | 77 | 64 | 52 | 53 | 59 | 81 | 85 | 79 | 86 | 83 | 84 | 93 | 96 | 86 |
| 12 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 74 | 53 | 41 | 33 | 30 | 26 | 26 | 30 | 37 | 48 | 61 | 66 | 71 | 74 | 77 | 67 |
| 13 | 54 | 59 | 64 | 67 | 74 | 79 | 83 | 78 | 65 | 54 | 42 | 36 | 34 | 32 | 33 | 34 | 37 | 43 | 53 | 58 | 62 | 67 | 72 | 63 | 59 |
| 14 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 68 | 51 | 38 | 36 | 37 | 35 | 35 | 37 | 47 | 68 | 78 | 83 | 85 | 90 | 92 | 63 |
| 15 | 74 | 74 | 74 | 74 | 71 | 71 | 77 | 82 | 73 | 60 | 51 | 38 | 33 | 34 | 30 | 32 | 37 | 45 | 58 | 67 | 69 | 73 | 75 | 75 | 68 |
| 16 | 90 | 92 | 92 | 93 | 93 | 93 | 94 | 94 | 92 | 70 | 51 | 39 | 34 | 31 | 30 | 28 | 32 | 37 | 47 | 58 | 68 | 74 | 77 | 78 | 67 |
| 17 | 81 | 81 | 81 | 81 | 82 | 83 | 81 | 80 | 75 | 61 | 42 | 34 | 30 | 28 | 28 | 24 | 28 | 32 | 38 | 49 | 58 | 61 | 60 | 60 | 57 |
| 18 | 55 | 54 | 55 | 55 | 55 | 52 | 49 | 47 | 46 | 44 | 46 | 52 | 63 | 58 | 51 | 48 | 40 | 45 | 50 | 92 | 92 | 97 | 99 | 97 | 66 |
| 19 | 94 | 94 | 95 | 94 | 91 | 96 | 96 | 97 | 89 | 89 | 76 | 54 | 45 | 42 | 40 | 37 | 40 | 50 | 65 | 73 | 76 | 79 | 81 | 82 | 73 |
| 20 | 85 | 80 | 84 | 84 | 85 | 86 | 85 | 82 | 72 | 59 | 41 | 33 | 29 | 27 | 26 | 26 | 27 | 28 | 32 | 36 | 39 | 42 | 46 | 52 | 52 |
| 21 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 41 | 31 | 26 | 27 | 26 | 26 | 26 | 27 | 31 | 41 | 48 | 55 | 59 | 57 | 49 | 44 |
| 22 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 55 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 24 | 87 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 70 | 64 | 44 | 39 | 39 | 48 | 72 | 74 | 76 | 92 | 92 | 90 | 89 | 87 | 88 |
| 25 | 81 | 82 | 82 | 84 | 82 | 83 | 84 | 81 | 73 | 57 | 39 | 34 | 31 | 30 | 29 | 29 | 29 | 32 | 38 | 60 | 76 | 82 | 81 | 83 | 76 |
| 26 | 84 | 80 | 85 | 84 | 81 | 81 | 81 | 91 | 84 | 73 | 57 | 45 | 42 | 38 | 34 | 33 | 34 | 40 | 47 | 59 | 67 | 72 | 77 | 79 | 67 |
| 27 | 84 | 81 | 81 | 82 | 82 | 82 | 77 | 76 | 68 | 57 | 41 | 31 | 28 | 26 | 26 | 26 | 26 | 28 | 31 | 36 | 41 | 48 | 56 | 63 | 53 |
| 28 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 80 |
| 29 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 91 |
| 30 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 81 |

MEAN 84. 80. 86. 87. 87. 87. 87. 86. 89. 70. 59. 51. 47. 44. 42. 44. 47. 54. 63. 70. 75. 79. 81. 83.

TOTAL NUMBER OF OBSERVATIONS = 8316 MEAN = 70.

DIURNAL VARIATION OF RELATIVE HUMIDITY
TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

| | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| MEAN | 73. | 73. | 74. | 75. | 75. | 77. | 77. | 77. | 73. | 65. | 56. | 59. | 47. | 45. | 43. | 43. | 45. | 48. | 51. | 56. | 61. | 65. | 66. | 67. |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 84 | 84 | 85 | 83 | 85 | 85 | 87 | 92 | 93 | 86 | 77 | 74 | 69 | 63 | 57 | 58 | 68 | 71 | 69 | 71 | 83 | 97 | 99 | 99 |
| 2 | 100 | 97 | 94 | 97 | 95 | 94 | 99 | 98 | 96 | 96 | 93 | 94 | 55 | 63 | 58 | 54 | 68 | 68 | 100 | 100 | 100 | 100 | 100 | 99 |
| 3 | 89 | 87 | 89 | 89 | 88 | 88 | 82 | 85 | 92 | 75 | 71 | 65 | 63 | 58 | 53 | 52 | 53 | 57 | 62 | 67 | 71 | 81 | 100 | 99 |
| 4 | 85 | 83 | 80 | 82 | 88 | 86 | 87 | 87 | 85 | 75 | 62 | 49 | 45 | 43 | 43 | 42 | 42 | 47 | 56 | 61 | 68 | 76 | 84 | 86 |
| 5 | 68 | 71 | 75 | 75 | 77 | 77 | 87 | 79 | 69 | 52 | 43 | 38 | 42 | 37 | 36 | 36 | 37 | 37 | 39 | 51 | 54 | 56 | 66 | 68 |
| 6 | 57 | 63 | 68 | 73 | 74 | 73 | 80 | 76 | 69 | 48 | 39 | 39 | 36 | 36 | 35 | 34 | 34 | 37 | 43 | 51 | 58 | 62 | 66 | 57 |
| 7 | 55 | 59 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 92 | 97 | 92 | 91 | 88 | 100 | 99 | 97 | 100 | 99 | 99 | 99 | 97 | 68 |
| 8 | 95 | 94 | 100 | 100 | 100 | 100 | 99 | 94 | 95 | 93 | 82 | 74 | 63 | 54 | 57 | 57 | 50 | 51 | 65 | 65 | 60 | 80 | 86 | 86 |
| 9 | 77 | 77 | 84 | 82 | 87 | 87 | 87 | 84 | 77 | 63 | 51 | 42 | 33 | 33 | 27 | 26 | 26 | 26 | 27 | 31 | 54 | 71 | 72 | 61 |
| 10 | 53 | 59 | 62 | 64 | 62 | 60 | 57 | 57 | 52 | 49 | 37 | 33 | 31 | 31 | 31 | 33 | 35 | 44 | 50 | 51 | 50 | 47 | 46 | 46 |
| 11 | 43 | 57 | 54 | 52 | 58 | 62 | 62 | 61 | 51 | 45 | 41 | 36 | 36 | 39 | 38 | 37 | 37 | 38 | 40 | 48 | 57 | 62 | 60 | 65 |
| 12 | 72 | 75 | 78 | 82 | 81 | 87 | 85 | 79 | 71 | 57 | 42 | 37 | 33 | 31 | 31 | 34 | 40 | 46 | 49 | 51 | 52 | 53 | 56 | 57 |
| 13 | 59 | 59 | 59 | 59 | 60 | 63 | 65 | 56 | 65 | 57 | 60 | 48 | | 38 | 37 | 35 | 33 | 35 | 38 | 43 | 54 | 58 | 62 | 58 |
| 14 | 42 | 41 | 63 | 71 | 70 | 82 | 75 | 76 | 74 | 67 | 46 | 38 | 34 | 31 | 28 | 26 | 26 | 23 | 34 | 43 | 48 | 50 | 50 | 52 |
| 15 | 50 | 45 | 53 | 59 | 59 | 59 | 60 | 60 | 54 | 45 | 37 | 33 | 31 | 53 | 51 | 47 | 66 | 77 | 77 | 88 | 94 | 87 | 86 | 84 |
| 16 | 73 | 70 | 70 | 68 | 65 | 66 | 65 | 63 | 56 | 45 | 35 | 53 | 46 | 44 | 41 | 37 | 35 | 35 | 38 | 49 | 63 | 70 | 73 | 70 |
| 17 | 69 | 65 | 70 | 68 | 65 | 66 | 65 | 63 | 56 | 45 | 35 | 31 | 28 | 27 | 27 | 26 | 26 | 27 | 29 | 29 | 28 | 29 | 29 | 30 |
| 18 | 31 | 31 | 32 | 32 | 31 | 31 | 32 | 32 | 31 | 29 | 27 | 27 | 26 | 26 | 25 | 26 | 26 | 28 | 30 | 31 | 31 | 31 | 31 | 32 |
| 19 | 32 | 33 | 34 | 36 | 39 | 43 | 45 | 46 | 43 | 39 | 37 | 35 | 33 | 31 | 31 | 32 | 34 | 39 | 50 | 62 | 77 | 98 | 99 | 100 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 21 | 75 | 74 | 74 | 74 | 75 | 75 | 77 | 77 | 73. | 65. | 56. | 59. | 47. | 45. | 43. | 43. | 45. | 48. | 51. | 56. | 61. | 65. | 66. | 67. |
| 22 | 69 | 65 | 70 | 68 | 65 | 66 | 65 | 63 | 56 | 45 | 35 | 46 | 40 | 37 | 37 | 37 | 37 | 42 | 55 | 62 | 62 | 61 | 60 | 59 |
| 23 | 57 | 55 | 55 | 56 | 57 | 54 | 53 | 49 | 45 | 41 | 35 | 32 | 31 | 31 | 29 | 26 | 29 | 32 | 34 | 37 | 38 | 40 | 43 | 46 |
| 24 | 52 | 52 | 53 | 52 | 54 | 52 | 52 | 49 | 46 | 42 | 34 | 29 | 25 | 25 | 25 | 30 | 30 | 30 | 31 | 36 | 47 | 56 | 57 | 56 |
| 25 | 40 | 40 | 42 | 42 | 42 | 41 | 40 | 39 | 37 | 33 | 27 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 26 | 28 | 30 | 33 | 37 | 36 |
| 26 | 38 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| 27 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| 28 | 65 | 65 | 67 | 68 | 69 | 71 | 72 | 73 | 64 | 54 | 46 | 40 | 36 | 34 | 32 | 32 | 33 | 34 | 37 | 38 | 39 | 39 | 39 | 42 |

TOTAL NUMBER OF OBSERVATIONS = 8075 MEAN = 62.

INTERNAL VARIATION OF RELATIVE HUMIDITY AT 8 FEET
 TAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | ME |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 83 | 87 | 84 | 83 | 85 | 84 | 85 | 84 | 87 | 83 | 81 | 79 | 76 | 72 | 67 | 67 | 73 | 75 | 77 | 80 | 83 | 84 | 87 | 87 | 81 |
| 2 | 87 | 87 | 87 | 89 | 92 | 94 | 94 | 94 | 86 | 81 | 75 | 73 | 66 | 66 | 67 | 70 | 70 | 73 | 72 | 74 | 80 | 89 | 92 | 93 | 82 |
| 3 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 93 | 91 | 91 | 94 | 95 | 97 | 97 | 97 | 98 | 97 | 97 | 97 | 96 | 96 | 92 |
| 4 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| 5 | 95 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 6 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 7 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 8 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 9 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 10 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 11 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 12 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 13 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 14 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 15 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 16 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 17 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 18 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 19 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 20 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 21 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 22 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 23 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 24 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| MEAN | 83. | 87. | 84. | 83. | 85. | 84. | 85. | 84. | 87. | 83. | 81. | 79. | 76. | 72. | 67. | 67. | 73. | 75. | 77. | 80. | 83. | 84. | 87. | 87. | 81. |

TOTAL NUMBER OF OBSERVATIONS = 8298 MEAN = 64.

DIURNAL VARIATION OF RELATIVE HUMIDITY AT 38 FEET
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 85 | 85 | 85 | 84 | 86 | 86 | 89 | 89 | 84 | | | 79 | 75 | 72 | 67 | 67 | 73 | 76 | 78 | 81 | 83 | 86 | 89 | 89 | 82 |
| 2 | 91 | 91 | 91 | 91 | 90 | 90 | 94 | 94 | 90 | 84 | 76 | 74 | 66 | 65 | 66 | 70 | 70 | 73 | 72 | 72 | 82 | 93 | 97 | 98 | 84 |
| 3 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 4 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 5 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 6 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 7 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 8 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 9 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 10 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 11 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 12 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 13 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 14 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 15 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 16 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 17 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 18 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 19 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 20 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 21 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 22 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 23 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 24 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 25 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 26 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 27 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 28 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 29 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 30 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |

MEAN 80. 80. 70. 71. 72. 73. 70. 72. 71. 67. 60. 58. 53. 51. 49. 50. 52. 54. 56. 59. 62. 64. 65. 67. 68. 69. 70.

TOTAL NUMBER OF OBSERVATIONS = 8392 MEAN = 63.

DIURNAL VARIATION OF RELATIVE HUMIDITY AT 100 FEET
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| | DAY | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 88 | 88 | 89 | 88 | 89 | 89 | 89 | 93 | 92 | 88 | | 82 | 78 | 74 | 69 | 69 | 69 | 77 | 80 | 82 | 85 | 88 | 91 | 90 |
| 2 | 92 | 92 | 89 | 91 | 94 | 93 | 95 | 93 | 95 | 87 | 78 | 76 | 67 | 56 | 67 | 72 | 71 | 73 | 72 | 73 | 84 | 94 | 97 | 98 |
| 3 | 90 | 91 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 99 | 96 | 96 | 99 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 4 | 89 | 90 | 93 | 94 | 92 | 95 | 94 | 91 | 91 | 90 | 81 | 79 | 77 | 72 | 65 | 65 | 65 | 66 | 66 | 71 | 72 | 71 | 74 | 73 |
| 5 | 86 | 82 | 82 | 81 | 82 | 82 | 84 | 87 | 88 | 85 | 72 | 66 | 56 | 54 | 52 | 51 | 51 | 56 | 61 | 65 | 66 | 69 | 71 | 70 |
| 6 | 72 | 72 | 73 | 73 | 71 | 73 | 79 | 81 | 83 | 79 | 70 | 62 | 50 | 45 | 40 | 45 | 46 | 47 | 48 | 53 | 53 | 53 | 53 | 54 |
| 7 | 54 | 57 | 54 | 58 | 63 | 65 | 67 | 60 | 66 | 54 | 49 | 46 | 45 | 45 | 44 | 43 | 44 | 47 | 51 | 53 | 55 | 57 | 58 | 55 |
| 8 | 54 | 55 | 56 | 56 | 56 | 56 | 59 | 56 | 54 | 48 | 47 | 47 | 46 | 44 | 44 | 49 | 56 | 58 | 59 | 61 | 64 | 65 | 63 | 66 |
| 9 | 84 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94 | 100 | 98 | 99 | 92 | 99 | 100 | 100 | 98 | 98 | 98 | 98 | 99 | 97 |
| 10 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98 | 97 | 94 | 91 | 78 | 67 | 68 | 67 | 56 | 64 | 69 | 68 | 64 | 77 | 85 | 85 |
| 11 | 81 | 78 | 76 | 75 | 73 | 72 | 74 | 72 | 76 | 71 | 61 | 46 | 33 | 30 | 28 | 27 | 29 | 30 | 31 | 41 | 57 | 60 | 60 | 57 |
| 12 | 56 | 57 | 55 | 51 | 54 | 49 | 47 | 47 | 47 | 42 | 39 | | 37 | 36 | 37 | 40 | 43 | 47 | 50 | 50 | 50 | 49 | 48 | 47 |
| 13 | 68 | 60 | 48 | 50 | 54 | 51 | 47 | 46 | 44 | 45 | 43 | 42 | 42 | 45 | 44 | 44 | 44 | 45 | 46 | 51 | 54 | 56 | 57 | 58 |
| 14 | 58 | 56 | 59 | 60 | 61 | 62 | 58 | 58 | 56 | 49 | 46 | 43 | 39 | 39 | 40 | 40 | 49 | 49 | 49 | 48 | 49 | 50 | 53 | 54 |
| 15 | 53 | 54 | 53 | 54 | 55 | 56 | 56 | 58 | 59 | 57 | 58 | 52 | 44 | 44 | 44 | 42 | 39 | 43 | 46 | 44 | 45 | 48 | 50 | 51 |
| 16 | 51 | 52 | 53 | 53 | 57 | 60 | 62 | 59 | 59 | 58 | 48 | 43 | 40 | 36 | 33 | 32 | 33 | 38 | 42 | 44 | 46 | 46 | 44 | 44 |
| 17 | 45 | 43 | 47 | 46 | 40 | 40 | 49 | 51 | 50 | 47 | 39 | 37 | 35 | 35 | 36 | 34 | 34 | 35 | 37 | 37 | 40 | 44 | 43 | 42 |
| 18 | 46 | 45 | 44 | 47 | 40 | 40 | 49 | 50 | 49 | 48 | 51 | 55 | 66 | 57 | 56 | 52 | 59 | 66 | 69 | 83 | 94 | 88 | 83 | 79 |
| 19 | 73 | 73 | 73 | 72 | 70 | 69 | 63 | 63 | 64 | 64 | 69 | 64 | | | 40 | 41 | 39 | 41 | 43 | 46 | 51 | 53 | 54 | 57 |
| 20 | 57 | 53 | 67 | 63 | 63 | 64 | 63 | 62 | 49 | 43 | 37 | 34 | 32 | 32 | 32 | 32 | 32 | 33 | 33 | 32 | 30 | 30 | 31 | 32 |
| 21 | 32 | 31 | 23 | 28 | 30 | 31 | 31 | 31 | 31 | 31 | 32 | 34 | 33 | 34 | 34 | 34 | 35 | 37 | 37 | 36 | 36 | 37 | 37 | 38 |
| 22 | 37 | 36 | 41 | 42 | 44 | 45 | 44 | 45 | 45 | 44 | 43 | 42 | 40 | 39 | 39 | 40 | 42 | 47 | 55 | 62 | 74 | 95 | 100 | 100 |
| 23 | 100 | 100 | 100 | 100 | 90 | 98 | 97 | 95 | 95 | 93 | 89 | 85 | 79 | 75 | 71 | 72 | 73 | 69 | 52 | 57 | 61 | 59 | 55 | 52 |
| 24 | 55 | 56 | 55 | 57 | 56 | 58 | 60 | 60 | 57 | 60 | 59 | 53 | 43 | 42 | 44 | 43 | 45 | 48 | 49 | 51 | 53 | 55 | 54 | 52 |
| 25 | 49 | 48 | 48 | 50 | 50 | 49 | 52 | 50 | 43 | 41 | 37 | 35 | 34 | 35 | 34 | | 36 | 38 | 40 | 41 | 41 | 41 | 43 | 46 |
| 26 | 49 | 53 | 54 | 55 | 57 | 58 | 60 | 60 | 59 | 59 | 55 | 50 | 45 | 40 | 34 | | 31 | 31 | 33 | 38 | 45 | 46 | 45 | 44 |
| 27 | 45 | 44 | 45 | 46 | 44 | 41 | 41 | 39 | 36 | 37 | 31 | 25 | 25 | 26 | 26 | | 29 | 29 | 31 | 33 | 36 | 38 | 43 | 46 |
| 28 | 74 | 80 | 97 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 97 | 93 | 86 | 71 | 54 | | 61 | 59 | 60 | 63 | 65 | 68 | 75 |
| 29 | 56 | 53 | 67 | 68 | 92 | 92 | 87 | 85 | 85 | 80 | 73 | 63 | 53 | 54 | 51 | 49 | | 45 | 46 | 50 | 53 | 50 | 50 | 53 |
| 30 | 55 | 57 | 60 | 62 | 64 | 60 | 59 | 56 | 55 | 53 | 48 | 43 | 38 | 37 | 37 | 37 | 38 | | 46 | 50 | 53 | 50 | 50 | 51 |

MEAN

67. 66.

TOTAL NUMBER OF OBSERVATIONS = 8395 MEAN = 61.

DIURNAL VARIATION OF RELATIVE HUMIDITY AT 200 FEET
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 94 | 94 | 95 | 94 | 94 | 94 | 94 | 97 | 96 | 93 | 83 | 72 | 66 | 74 | 68 | 69 | 77 | 78 | 81 | 83 | 90 | 92 | 92 | 93 | 88 |
| 2 | 95 | 95 | 95 | 96 | 99 | 100 | 100 | 99 | 93 | 89 | 73 | 72 | 66 | 65 | 66 | 69 | 70 | 74 | 74 | 75 | 84 | 99 | 100 | 100 | 86 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 5 | 94 | 94 | 95 | 97 | 97 | 98 | 98 | 99 | 94 | 79 | 64 | 68 | 68 | 63 | 60 | 61 | 65 | 65 | 70 | 72 | 76 | 78 | 79 | 100 | 82 |
| 6 | 77 | 76 | 79 | 87 | 85 | 92 | 93 | 86 | 80 | 76 | 65 | 55 | 53 | 51 | 51 | 50 | 52 | 57 | 62 | 66 | 71 | 76 | 80 | 81 | 76 |
| 7 | 87 | 80 | 85 | 84 | 84 | 89 | 71 | 69 | 62 | 55 | 65 | 59 | 48 | 45 | 50 | 46 | 47 | 48 | 48 | 53 | 57 | 58 | 56 | 58 | 66 |
| 8 | 87 | 80 | 85 | 84 | 84 | 89 | 71 | 69 | 62 | 55 | 65 | 59 | 48 | 45 | 45 | 44 | 46 | 50 | 54 | 57 | 58 | 60 | 59 | 56 | 57 |
| 9 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 11 | 86 | 81 | 81 | 70 | 70 | 76 | 75 | 76 | 71 | 66 | 55 | 43 | 33 | 32 | 30 | 30 | 32 | 34 | 35 | 44 | 58 | 62 | 62 | 60 | 58 |
| 12 | 61 | 61 | 53 | 54 | 52 | 52 | 50 | 50 | 49 | 45 | 41 | 43 | 39 | 36 | 39 | 42 | 45 | 50 | 53 | 53 | 53 | 52 | 51 | 51 | 50 |
| 13 | 51 | 51 | 51 | 53 | 50 | 54 | 50 | 48 | 46 | 46 | 44 | 44 | 44 | 47 | 45 | 46 | 46 | 48 | 50 | 54 | 54 | 59 | 52 | 64 | 51 |
| 14 | 64 | 67 | 60 | 67 | 65 | 63 | 61 | 62 | 50 | 49 | 46 | 42 | 39 | 40 | 42 | 46 | 51 | 51 | 50 | 51 | 51 | 53 | 56 | 56 | 55 |
| 15 | 55 | 55 | 55 | 55 | 57 | 58 | 57 | 56 | 55 | 57 | 50 | 53 | 44 | 44 | 45 | 43 | 41 | 45 | 48 | 49 | 50 | 52 | 53 | 57 | 52 |
| 16 | 55 | 55 | 55 | 52 | 62 | 63 | 67 | 65 | 58 | 54 | 48 | 41 | 38 | 35 | 33 | 33 | 33 | 40 | 42 | 46 | 49 | 52 | 49 | 46 | 50 |
| 17 | 45 | 47 | 50 | 52 | 54 | 52 | 51 | 53 | 50 | 40 | 40 | 38 | 36 | 36 | 36 | 36 | 36 | 37 | 38 | 40 | 43 | 46 | 46 | 46 | 44 |
| 18 | 40 | 47 | 46 | 50 | 51 | 51 | 51 | 51 | 50 | 50 | 53 | 56 | 67 | 58 | 57 | 54 | 62 | 69 | 70 | 85 | 100 | 97 | 93 | 83 | 63 |
| 19 | 75 | 75 | 77 | 75 | 79 | 93 | 100 | 100 | 99 | 96 | 80 | 67 | 34 | 34 | 46 | 43 | 42 | 44 | 46 | 48 | 52 | 54 | 55 | 60 | 60 |
| 20 | 81 | 81 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 21 | 84 | 82 | 81 | 81 | 82 | 82 | 83 | 84 | 83 | 83 | 84 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| 22 | 84 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 24 | 50 | 61 | 62 | 64 | 62 | 61 | 65 | 65 | 59 | 49 | 47 | 42 | 38 | 36 | 41 | 42 | 45 | 48 | 48 | 59 | 62 | 62 | 63 | 59 | 77 |
| 25 | 51 | 50 | 50 | 51 | 51 | 51 | 50 | 50 | 44 | 41 | 36 | 35 | 36 | 36 | 35 | 41 | 39 | 41 | 42 | 43 | 54 | 55 | 55 | 54 | 53 |
| 26 | 52 | 57 | 58 | 59 | 60 | 60 | 61 | 65 | 61 | 55 | 51 | 47 | 43 | 40 | 35 | 26 | 33 | 35 | 38 | 42 | 48 | 44 | 47 | 49 | 45 |
| 27 | 45 | 45 | 47 | 48 | 45 | 42 | 41 | 40 | 38 | 37 | 32 | 27 | 27 | 28 | 28 | 26 | 31 | 33 | 34 | 37 | 38 | 39 | 44 | 48 | 50 |
| 28 | 72 | 81 | 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99 | 91 | 71 | 67 | 66 | 65 | 64 | 64 | 67 | 68 | 71 | 76 | 85 |
| 29 | 61 | 61 | 67 | 100 | 100 | 100 | 100 | 100 | 94 | 74 | 62 | 49 | 45 | 45 | 44 | 45 | 44 | 48 | 56 | 59 | 62 | 56 | 56 | 61 | 71 |
| 30 | 64 | 64 | 65 | 70 | 72 | 72 | 74 | 65 | 59 | 49 | 43 | 38 | 37 | 36 | 37 | 37 | 40 | 48 | 56 | 59 | 62 | 56 | 56 | 61 | 55 |

MEAN 59. 71. 72. 73. 73. 73. 73. 74. 73. 70. 64. 57. 56. 53. 51. 50. 51. 51. 51. 55. 56. 59. 62. 65. 65. 66. 68.

TOTAL NUMBER OF OBSERVATIONS = 8378 MEAN = 63.

DIURNAL VARIATION OF TEMPERATURE (DEG F)
TRAILER NO. - 20 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|-----|------|-----|------|------|------|------|------|------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 34 | 36 | 37 | 39 | 41 | 41 | 38 | 36 | 36 | 34 | 33 | 32 | 31 | 31 | 30 | 34 |
| 2 | 29 | 27 | 26 | 26 | 27 | 26 | 26 | 26 | 29 | 35 | 39 | 39 | 40 | 41 | 40 | 42 | 40 | 39 | 37 | 35 | 31 | 29 | 28 | 29 | 33 |
| 3 | 24 | 24 | 20 | 20 | 26 | 24 | 26 | 27 | 27 | 24 | 22 | 30 | 30 | 23 | 26 | 27 | 27 | 25 | 26 | 26 | 26 | 26 | 26 | 25 | 28 |
| 4 | 26 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 26 | 29 | 31 | 33 | 34 | 36 | 34 | 32 | 32 | 29 | 27 | 23 | 23 | 23 | 20 | 27 |
| 5 | 13 | 17 | 15 | 14 | 13 | 12 | 12 | 13 | 24 | 27 | 32 | 37 | 35 | 37 | 38 | 35 | 29 | 29 | 23 | 20 | 19 | 17 | 16 | 16 | 23 |
| 6 | 16 | 14 | 13 | 12 | 12 | 11 | 11 | 12 | 15 | 24 | 32 | 37 | 38 | 39 | 41 | 41 | 39 | 33 | 25 | 22 | 19 | 18 | 17 | 15 | 23 |
| 7 | 15 | 15 | 14 | 13 | 13 | 13 | 14 | 15 | 21 | 32 | 41 | 43 | 43 | 44 | 44 | 42 | 42 | 33 | 27 | 25 | 24 | 22 | 20 | 18 | 27 |
| 8 | 21 | 27 | 27 | 19 | 17 | 17 | 16 | 21 | 25 | 36 | 46 | 47 | 47 | 47 | 46 | 43 | 42 | 36 | 29 | 26 | 27 | 29 | 30 | 30 | 31 |
| 9 | 37 | 37 | 29 | 26 | 24 | 26 | 24 | 28 | 25 | 30 | 32 | 32 | 34 | 34 | 32 | 28 | 28 | 28 | 27 | 26 | 24 | 24 | 25 | 24 | 29 |
| 10 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 25 | 25 | 26 | 28 | 31 | 34 | 35 | 35 | 35 | 35 | 32 | 33 | 31 | 29 | 28 | 24 | 21 | 28 |
| 11 | 17 | 14 | 17 | 14 | 13 | 13 | 12 | 16 | 19 | 26 | 33 | 36 | 37 | 39 | 40 | 40 | 37 | 24 | 24 | 21 | 20 | 20 | 20 | 19 | 24 |
| 12 | 27 | 16 | 15 | 16 | 17 | 19 | 21 | 22 | 25 | 28 | 40 | 43 | 44 | 42 | 45 | 44 | 43 | 32 | 37 | 37 | 33 | 30 | 28 | 31 | 31 |
| 13 | 33 | 32 | 33 | 35 | 27 | 25 | 24 | 25 | 29 | 34 | 44 | 47 | 47 | 45 | 46 | 44 | 44 | 37 | 37 | 30 | 26 | 23 | 21 | 23 | 34 |
| 14 | 19 | 17 | 17 | 17 | 17 | 10 | 17 | 19 | 25 | 33 | 42 | 46 | 47 | 48 | 47 | 45 | 42 | 39 | 35 | 33 | 32 | 29 | 29 | 28 | 32 |
| 15 | 25 | 25 | 23 | 22 | 22 | 21 | 22 | 23 | 20 | 25 | 29 | 42 | 45 | 46 | 45 | 47 | 43 | 35 | 28 | 26 | 24 | 22 | 20 | 16 | 29 |
| 16 | 17 | 16 | 15 | 15 | 15 | 14 | 14 | 15 | 21 | 26 | 37 | 41 | 43 | 44 | 45 | 47 | 41 | 32 | 26 | 25 | 23 | 21 | 21 | 21 | 27 |
| 17 | 27 | 19 | 14 | 15 | 17 | 16 | 16 | 19 | 24 | 33 | 44 | 46 | 47 | 46 | 47 | 47 | 44 | 34 | 29 | 28 | 27 | 25 | 30 | 31 | 31 |
| 18 | 34 | 33 | 31 | 33 | 35 | 36 | 35 | 35 | 37 | 40 | 39 | 40 | 37 | 41 | 41 | 41 | 36 | 31 | 31 | 32 | 32 | 28 | 27 | 27 | 35 |
| 19 | | | | | | | | | | | | | | | 34 | 34 | 32 | 25 | 20 | 19 | 16 | 16 | 16 | 24 | 24 |
| 20 | 15 | 15 | 15 | 15 | 14 | 13 | 13 | 14 | 20 | 29 | 39 | 42 | 44 | 45 | 44 | 42 | 39 | 30 | 27 | 27 | 24 | 24 | 23 | 21 | 27 |
| 21 | 23 | 23 | 22 | 19 | 27 | 21 | 22 | 24 | 29 | 40 | 47 | 49 | 50 | 50 | 49 | 44 | 44 | 35 | 34 | 32 | 31 | 30 | 30 | 38 | 34 |
| 22 | 37 | 33 | 32 | 27 | 24 | 22 | 27 | 34 | 34 | 46 | 47 | 48 | 48 | 48 | 40 | 46 | 44 | 39 | 36 | 34 | 34 | 32 | 28 | 27 | 37 |
| 23 | 26 | 27 | 25 | 24 | 26 | 21 | 16 | 13 | 15 | 18 | 22 | 24 | 26 | 27 | 29 | 30 | 25 | 20 | 17 | 15 | 12 | 10 | 9 | 9 | 21 |
| 24 | 9 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 12 | 19 | 27 | 35 | 36 | 39 | 40 | 41 | 33 | 27 | 23 | 22 | 21 | 21 | 21 | 20 | 21 |
| 25 | 27 | 18 | 27 | 19 | 18 | 18 | 29 | 23 | 25 | 36 | 42 | 44 | 44 | 44 | 45 | 44 | 40 | 36 | 31 | 24 | 24 | 24 | 18 | 15 | 29 |
| 26 | 13 | 14 | 14 | 12 | 11 | 13 | 10 | 9 | 14 | 22 | 29 | 32 | 34 | 35 | 37 | 37 | 31 | 22 | 19 | 16 | 14 | 13 | 11 | 11 | 20 |
| 27 | 13 | 11 | 17 | 9 | 8 | 8 | 10 | 11 | 17 | 26 | 37 | 39 | 39 | 42 | 41 | 40 | 36 | 34 | 28 | 27 | 26 | 25 | 24 | 26 | 24 |
| 28 | 25 | 24 | 24 | 19 | 23 | 22 | 18 | 15 | 16 | 18 | 19 | 24 | 21 | 25 | 27 | 26 | 23 | 22 | 19 | 15 | 12 | 6 | 1 | 2 | 19 |
| 29 | - 5 | - 9 | - 10 | - 11 | - 11 | - 14 | - 14 | - 13 | - 8 | 1 | 10 | 17 | 19 | 22 | 23 | 24 | 19 | 11 | 6 | 3 | 1 | 0 | - | - | 3 |
| 30 | - 2 | - 3 | - 4 | - 7 | - 5 | - 6 | - 5 | - 8 | 1 | 13 | 18 | 29 | 31 | 32 | 33 | 33 | 27 | 21 | 18 | 15 | 10 | 8 | 8 | 8 | 11 |

MEAN 21. 20. 19. 18. 18. 16.

TOTAL NUMBER OF OBSERVATIONS = 8341 MEAN = 27.

JOURNAL VARIATION OF TEMPERATURE (DEG F)
 TAILER NO. - 21 PERIOD (11/ 1/74 TO 11/30/74)

DAY

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| 1 | 34 | 34 | 33 | 31 | 31 | 31 | 31 | 31 | 35 | 36 | 37 | 37 | 38 | 40 | 41 | 42 | 40 | 35 | 35 | 34 | 34 | 32 | 31 | 30 | 35 |
| 2 | 33 | 25 | 25 | 25 | 27 | 26 | 25 | 25 | 30 | 34 | 39 | 41 | 41 | 44 | 41 | 41 | 41 | 40 | 36 | 35 | 34 | 30 | 30 | 30 | 33 |
| 3 | 31 | 31 | 34 | 34 | 34 | 29 | 28 | 28 | 28 | 30 | 30 | 31 | 30 | 31 | 31 | 30 | 29 | 27 | 27 | 27 | 27 | 26 | 25 | 25 | 29 |
| 4 | 25 | 25 | 25 | 26 | 25 | 26 | 25 | 25 | 25 | 25 | 30 | 30 | 33 | 35 | 35 | 35 | 35 | 35 | 30 | 26 | 24 | 19 | 17 | 22 | |
| 5 | 15 | 15 | 12 | 11 | 9 | 10 | 9 | 9 | 15 | 23 | 29 | 35 | 36 | 38 | 41 | 40 | 36 | 29 | 24 | 19 | 17 | 25 | 17 | 15 | 31 |
| 6 | 15 | 15 | 14 | 15 | 13 | 12 | 9 | 11 | 17 | 25 | 36 | 42 | 45 | 47 | 47 | 47 | 43 | 36 | 27 | 23 | 22 | 20 | 19 | 17 | 26 |
| 7 | 15 | 15 | 15 | 14 | 15 | 16 | 15 | 19 | 27 | 36 | 45 | 47 | 46 | 47 | 45 | 45 | 42 | 36 | 29 | 25 | 25 | 27 | 30 | 30 | 30 |
| 8 | 33 | 31 | 31 | 34 | 29 | 27 | 25 | 29 | 32 | 31 | 34 | 35 | 36 | 35 | 33 | 28 | 30 | 34 | 28 | 26 | 25 | 22 | 25 | 26 | 30 |
| 9 | 25 | 25 | 26 | 25 | 25 | 25 | 25 | 24 | 25 | 26 | 29 | 30 | 35 | 35 | 35 | 36 | 35 | 33 | 35 | 33 | 30 | 30 | 24 | 20 | 29 |
| 10 | 21 | 17 | 14 | 14 | 14 | 11 | 13 | 13 | 16 | 23 | 20 | 35 | 39 | 41 | 41 | 40 | 38 | 34 | 23 | 24 | 19 | 19 | 20 | 20 | 24 |
| 11 | 21 | 19 | 19 | 19 | 20 | 20 | 20 | 22 | 26 | 33 | 40 | 42 | 45 | 46 | 46 | 46 | 42 | 38 | 35 | 34 | 32 | 34 | 34 | 31 | 32 |
| 12 | 33 | 33 | 33 | 31 | 29 | 25 | 25 | 24 | 29 | 34 | 44 | 47 | 48 | 47 | 47 | 47 | 43 | 39 | 31 | 27 | 25 | 23 | 24 | 20 | 34 |
| 13 | 17 | 15 | 15 | 15 | 15 | 15 | 15 | 17 | 22 | 30 | 34 | 45 | 47 | 50 | 48 | 47 | 43 | 40 | 36 | 36 | 35 | 34 | 31 | 31 | 31 |
| 14 | 31 | 31 | 31 | 24 | 25 | 25 | 25 | 25 | 27 | 31 | 36 | 43 | 46 | 46 | 47 | 47 | 46 | 38 | 27 | 25 | 24 | 22 | 19 | 15 | 32 |
| 15 | 15 | 14 | 14 | 14 | 15 | 14 | 13 | 13 | 17 | 23 | 33 | 40 | 43 | 46 | 46 | 46 | 42 | 32 | 27 | 25 | 21 | 19 | 20 | 20 | 26 |
| 16 | 21 | 17 | 15 | 14 | 15 | 9 | 9 | 9 | 16 | 25 | 36 | 46 | 46 | 46 | 47 | 46 | 45 | 36 | 30 | 30 | 32 | 30 | 30 | 32 | 29 |
| 17 | 35 | 35 | 35 | 35 | 35 | 37 | 30 | 36 | 37 | 41 | 41 | 41 | 40 | 41 | 40 | 41 | 37 | 30 | 30 | 33 | 31 | 30 | 26 | 25 | 36 |
| 18 | 24 | 25 | 24 | 21 | 21 | 23 | 22 | 25 | 25 | 25 | 28 | 31 | 35 | 36 | 36 | 36 | 35 | 27 | 21 | 19 | 17 | 14 | 13 | 25 | |
| 19 | 11 | 13 | 13 | 14 | 13 | 13 | 12 | 15 | 21 | 31 | 38 | 42 | 45 | 46 | 46 | 45 | 39 | 33 | 30 | 27 | 25 | 24 | 23 | 27 | 31 |
| 20 | 21 | 21 | 20 | 19 | 14 | 9 | 11 | 9 | 19 | 28 | 44 | 52 | 51 | 52 | 52 | 51 | 46 | 39 | 35 | 30 | 26 | 25 | 31 | 31 | 31 |
| 21 | 12 | 17 | 17 | 14 | 14 | 19 | 22 | 21 | 23 | 31 | 44 | 50 | 51 | 50 | 47 | 46 | 40 | 40 | 38 | 32 | 36 | 33 | 29 | 26 | 32 |
| 22 | 24 | 23 | 24 | 25 | 25 | 23 | 15 | 11 | 10 | 16 | 21 | 25 | 27 | 30 | 30 | 30 | 27 | 21 | 16 | 14 | 13 | 10 | 9 | 9 | 20 |
| 23 | 10 | 4 | 4 | 3 | 0 | 0 | 0 | 0 | 4 | 14 | 21 | 31 | 36 | 41 | 40 | 41 | 36 | 26 | 24 | 24 | 22 | 20 | 20 | 20 | 21 |
| 24 | 20 | 15 | 21 | 22 | 22 | 19 | 20 | 16 | 19 | 23 | 35 | 43 | 46 | 47 | 39 | 40 | 34 | 24 | 18 | 15 | 13 | 13 | 10 | 9 | 26 |
| 25 | 14 | 13 | 13 | 14 | 11 | 11 | 9 | 9 | 13 | 22 | 29 | 33 | 35 | 36 | 39 | 40 | 38 | 36 | 31 | 28 | 25 | 25 | 26 | 25 | 24 |
| 26 | 9 | 10 | 4 | 4 | 4 | 1 | 1 | 1 | 15 | 25 | 35 | 41 | 41 | 41 | 41 | 41 | 38 | 35 | 31 | 28 | 25 | 25 | 26 | 25 | 24 |
| 27 | 25 | 25 | 25 | 25 | 24 | 21 | 24 | 17 | 17 | 20 | 20 | 19 | 23 | 26 | 26 | 26 | 25 | 23 | 20 | 19 | 14 | 12 | 9 | 22 | 22 |
| 28 | -5 | -10 | -11 | -11 | -14 | -16 | -17 | -17 | -16 | 0 | 7 | 22 | 31 | 34 | 36 | 35 | 29 | 22 | 20 | 17 | 10 | 9 | 5 | 1 | 7 |
| 29 | -6 | -11 | -11 | -13 | -15 | -16 | -16 | -16 | -11 | -1 | 12 | 22 | 31 | 34 | 36 | 35 | 29 | 22 | 20 | 17 | 10 | 9 | 5 | 1 | 7 |
| 30 | -6 | -11 | -11 | -13 | -15 | -16 | -16 | -16 | -11 | -1 | 12 | 22 | 31 | 34 | 36 | 35 | 29 | 22 | 20 | 17 | 10 | 9 | 5 | 1 | 7 |

MEAN 21. 19. 19. 16. 17. 17. 16. 16. 16. 20. 20. 33. 33. 40. 41. 41. 41. 38. 33. 29. 26. 24. 23. 22. 22. 22.

TOTAL NUMBER OF OBSERVATIONS = 8085 MEAN = 27.

DIURNAL VARIATION OF TEMPERATURE (DEG F)
TRAILER NO. - 22 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | 33 | 33 | 34 | 33 | 33 | 34 | 33 | 33 | 35 | 39 | 39 | 41 | 43 | 44 | 43 | 40 | 40 | 39 | 36 | 35 | 33 | 33 | 33 | 32 | 37 |
| 2 | 31 | 30 | 29 | 30 | 30 | 30 | 29 | 29 | 32 | 35 | 41 | 42 | 43 | 44 | 46 | 45 | | 29 | 29 | 29 | 29 | 28 | 29 | 28 | 36 |
| 3 | 27 | 27 | 26 | 26 | 26 | 26 | 26 | 27 | 28 | 30 | 32 | 33 | 33 | 32 | 31 | 31 | 30 | 29 | 29 | 29 | 29 | 28 | 29 | 28 | 31 |
| 4 | 21 | 19 | 18 | 18 | 17 | 16 | 16 | 17 | 22 | 29 | 34 | 35 | 34 | 36 | 33 | 37 | 36 | 33 | 30 | 29 | 27 | 25 | 25 | 23 | 30 |
| 5 | 18 | 18 | 17 | 16 | 15 | 15 | 16 | 16 | 24 | 28 | 35 | 36 | 34 | 40 | 40 | 40 | 36 | 30 | 25 | 23 | 22 | 21 | 20 | 19 | 26 |
| 6 | 19 | 18 | 18 | 18 | 17 | 16 | 16 | 16 | 24 | 28 | 35 | 37 | 39 | 43 | 43 | 42 | 40 | 34 | 28 | 24 | 23 | 22 | 21 | 21 | 27 |
| 7 | 19 | 18 | 18 | 18 | 17 | 16 | 16 | 16 | 23 | 33 | 42 | 44 | 45 | 46 | 46 | 46 | 41 | 34 | 29 | 28 | 25 | 25 | 23 | 20 | 29 |
| 8 | 24 | 23 | 21 | 21 | 20 | 19 | 18 | 22 | 29 | 39 | | | | | | | | | 32 | 30 | 31 | 32 | 32 | 33 | 30 |
| 9 | 32 | 31 | 27 | 30 | 34 | 30 | 27 | 30 | 30 | 31 | 35 | 34 | 35 | 36 | 36 | 46 | 43 | 38 | 32 | 30 | 27 | 28 | 27 | 25 | 31 |
| 10 | 26 | 26 | 26 | 27 | 26 | 26 | 27 | 27 | 28 | 28 | 34 | 33 | 36 | 38 | 36 | 36 | 34 | 30 | 34 | 29 | 27 | 28 | 27 | 25 | 31 |
| 11 | 22 | 21 | 21 | 20 | 17 | 16 | 17 | 17 | 21 | 25 | 36 | 38 | 40 | 41 | 42 | 41 | 34 | 29 | 27 | 24 | 32 | 31 | 27 | 25 | 31 |
| 12 | 22 | 21 | 21 | 21 | 21 | 21 | 22 | 23 | 27 | 34 | 42 | 43 | 46 | 45 | 45 | 44 | 42 | 38 | 35 | 34 | 32 | 33 | 24 | 22 | 27 |
| 13 | 37 | 34 | 33 | 31 | 29 | 27 | 27 | 26 | 31 | 37 | 44 | 49 | 48 | 48 | 49 | 45 | 45 | 39 | 32 | 30 | 29 | 27 | 25 | 24 | 36 |
| 14 | 23 | 21 | 21 | 20 | 21 | 20 | 21 | 22 | 26 | 34 | 43 | 43 | 49 | 50 | 49 | 47 | 44 | 40 | 36 | 34 | 33 | 31 | 30 | 30 | 33 |
| 15 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 29 | 32 | 38 | 44 | 44 | 47 | 48 | 48 | 47 | 45 | 38 | 31 | 28 | 28 | 26 | 27 | 24 | 35 |
| 16 | 22 | 21 | 20 | 19 | 19 | 17 | 17 | 17 | 23 | 30 | 39 | 44 | 46 | 47 | 48 | 47 | 37 | 34 | 31 | 29 | 26 | 24 | 23 | 21 | 30 |
| 17 | 22 | 22 | 22 | 21 | 20 | 20 | 20 | 20 | 24 | 33 | 45 | 48 | 49 | 48 | 48 | 44 | 43 | 35 | 32 | 30 | 29 | 29 | 30 | 31 | 33 |
| 18 | 35 | 30 | 35 | 35 | 36 | 37 | 39 | 38 | 40 | 43 | 41 | 41 | 38 | 41 | 43 | 43 | 43 | 33 | 33 | 34 | 32 | 31 | 29 | 29 | 37 |
| 19 | 24 | 23 | 26 | 24 | 25 | 25 | 24 | 26 | 26 | 27 | 30 | 33 | 35 | 35 | 36 | 36 | 31 | 26 | 23 | 22 | 21 | 19 | 18 | 18 | 27 |
| 20 | 17 | 17 | 16 | 16 | 15 | 15 | 15 | 15 | 21 | 29 | 40 | 44 | 47 | 47 | 46 | 45 | 40 | 33 | 29 | 26 | 26 | 24 | 22 | 20 | 28 |
| 21 | 20 | 21 | 22 | 22 | 21 | 21 | 21 | 22 | 27 | 30 | 49 | 51 | 53 | 52 | 52 | 50 | 47 | 39 | 36 | 35 | 32 | 31 | 33 | 37 | 35 |
| 22 | 37 | 35 | 31 | 30 | 30 | 31 | 31 | 30 | 34 | 45 | 48 | 49 | 53 | 53 | 49 | 46 | 45 | 39 | 39 | 38 | 36 | 32 | 30 | 29 | 39 |
| 23 | 28 | 27 | 26 | 26 | 26 | 24 | 26 | 26 | 14 | 15 | 24 | 27 | 26 | 30 | 30 | 27 | 23 | 21 | 18 | 16 | 14 | 13 | 12 | 12 | 22 |
| 24 | 11 | 10 | 10 | 9 | 10 | 10 | 10 | 10 | 12 | 16 | 27 | 33 | 39 | 40 | 41 | 35 | 31 | 28 | 27 | 24 | 22 | 22 | 21 | 20 | 22 |
| 25 | 21 | 19 | 19 | 16 | 18 | 17 | 17 | 12 | 23 | 34 | 43 | 46 | 45 | 47 | 47 | 46 | 42 | 38 | 33 | 26 | 24 | 23 | 21 | 18 | 30 |
| 26 | 18 | 17 | 17 | 14 | 13 | 12 | 12 | 12 | 16 | 22 | 30 | 34 | 36 | 37 | 38 | 36 | 30 | 25 | 23 | 20 | 18 | 16 | 14 | 13 | 22 |
| 27 | 13 | 13 | 12 | 10 | 10 | 9 | 11 | 12 | 15 | 24 | 30 | 42 | 42 | 44 | 43 | 41 | 37 | 32 | 34 | 29 | 28 | 27 | 27 | 26 | 26 |
| 28 | 24 | 27 | 27 | 26 | 25 | 24 | 21 | 19 | 19 | 21 | 22 | 22 | 22 | 25 | 29 | 29 | 25 | 22 | 20 | 17 | 13 | 6 | 2 | 26 | 21 |
| 29 | 3 | 5 | 7 | 8 | 9 | 11 | 11 | 11 | 6 | 1 | 12 | 13 | 22 | 24 | 25 | 24 | 17 | 14 | 10 | 7 | 6 | 4 | 3 | 2 | 11 |
| 30 | 1 | 5 | 8 | 8 | 8 | 9 | 9 | 9 | 5 | 14 | 25 | 34 | 32 | 34 | 34 | 33 | 28 | 25 | 21 | 18 | 15 | 12 | 11 | 15 | 15 |

MEAN 23. 26. 27. 29. 32. 37. 41. 42. 42. 41. 37. 25. 23. 23.

TOTAL NUMBER OF OBSERVATIONS = 8277 MEAN = 29.

JOURNAL VARIATION OF TEMPERATURE (DEG F)
TRAILER NO. - 24 PERIOD (11/ 1/74 TO 11/30/74)

HOURS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 ME

14

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0.

JOURNAL VARIATION OF TEMPERATURE AT 8 FEET (DEG F)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 ME |
| 1 | 35 | 34 | 34 | 33 | 34 | 34 | 33 | 33 | 33 | 36 | 37 | 38 | 39 | 41 | 42 | 41 | 39 | 36 | 34 | 33 | 32 | 33 | 32 | 32 |
| 2 | 32 | 31 | 31 | 33 | 34 | 29 | 24 | 33 | 33 | 37 | 39 | 40 | 40 | 42 | 42 | 41 | 39 | 38 | 37 | 35 | 33 | 31 | 31 | 32 |
| 3 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 29 | 30 | 31 | 30 | 30 | 29 | 28 | 28 | 27 | 28 | 27 | 27 | 27 | 30 |
| 4 | 25 | 25 | 25 | 24 | 25 | 24 | 25 | 25 | 26 | 29 | 31 | 31 | 32 | 35 | 36 | 35 | 35 | 33 | 31 | 34 | 29 | 27 | 26 | 27 |
| 5 | 26 | 22 | 22 | 21 | 22 | 21 | 21 | 21 | 25 | 29 | 33 | 34 | 37 | 37 | 37 | 38 | 36 | 32 | 29 | 27 | 26 | 25 | 24 | 25 |
| 6 | 24 | 27 | 26 | 26 | 26 | 25 | 25 | 24 | 34 | 39 | 41 | 42 | 43 | 44 | 45 | 44 | 39 | 34 | 29 | 28 | 27 | 27 | 25 | 26 |
| 7 | 30 | 29 | 30 | 29 | 28 | 27 | 28 | 28 | 36 | 43 | 45 | 46 | 47 | 48 | 46 | 45 | 41 | 37 | 34 | 33 | 32 | 32 | 31 | 31 |
| 8 | 33 | 32 | 31 | 31 | 33 | 31 | 30 | 31 | 31 | 33 | 35 | 32 | 34 | 34 | 35 | 30 | 39 | 38 | 35 | 36 | 33 | 34 | 34 | 34 |
| 9 | 35 | 30 | 27 | 27 | 28 | 27 | 25 | 26 | 27 | 28 | 33 | 33 | 35 | 35 | 36 | 36 | 35 | 33 | 29 | 29 | 28 | 26 | 26 | 25 |
| 10 | 26 | 26 | 26 | 21 | 22 | 21 | 20 | 20 | 25 | 30 | 33 | 36 | 37 | 39 | 40 | 39 | 38 | 34 | 28 | 28 | 31 | 29 | 28 | 25 |
| 11 | 27 | 26 | 26 | 27 | 27 | 27 | 27 | 27 | 34 | 38 | 42 | 42 | 42 | 44 | 44 | 44 | 42 | 36 | 36 | 36 | 29 | 29 | 28 | 25 |
| 12 | 34 | 30 | 37 | 33 | 34 | 32 | 32 | 32 | 39 | 43 | 47 | 47 | 47 | 45 | 46 | 45 | 44 | 40 | 39 | 35 | 37 | 37 | 38 | 38 |
| 13 | 23 | 27 | 24 | 27 | 29 | 27 | 29 | 28 | 33 | 41 | 44 | 45 | 46 | 48 | 47 | 44 | 42 | 40 | 38 | 38 | 36 | 35 | 32 | 29 |
| 14 | 30 | 33 | 35 | 35 | 35 | 34 | 31 | 31 | 34 | 39 | 40 | 44 | 46 | 46 | 46 | 46 | 45 | 40 | 35 | 33 | 32 | 32 | 32 | 36 |
| 15 | 29 | 27 | 27 | 24 | 25 | 25 | 25 | 26 | 28 | 34 | 40 | 44 | 43 | 44 | 46 | 46 | 45 | 39 | 34 | 33 | 33 | 33 | 32 | 31 |
| 16 | 31 | 31 | 30 | 29 | 34 | 37 | 27 | 26 | 35 | 40 | 44 | 46 | 47 | 47 | 47 | 47 | 43 | 39 | 37 | 37 | 35 | 35 | 35 | 36 |
| 17 | 37 | 39 | 39 | 34 | 37 | 38 | 37 | 37 | 36 | 41 | 49 | 49 | 48 | 41 | 41 | 41 | 38 | 36 | 36 | 34 | 34 | 33 | 31 | 31 |
| 18 | 29 | 29 | 29 | 24 | 25 | 25 | 26 | 25 | 26 | 27 | 34 | 32 | 45 | 41 | 35 | 36 | 35 | 29 | 27 | 25 | 25 | 24 | 31 | 31 |
| 19 | 23 | 23 | 22 | 22 | 24 | 25 | 25 | 25 | 26 | 37 | 41 | 44 | 45 | 46 | 46 | 43 | 40 | 36 | 34 | 33 | 33 | 32 | 24 | 24 |
| 20 | 31 | 31 | 32 | 34 | 32 | 32 | 30 | 33 | 40 | 45 | 48 | 50 | 51 | 51 | 50 | 49 | 47 | 43 | 41 | 33 | 32 | 32 | 31 | 31 |
| 21 | 41 | 41 | 39 | 39 | 36 | 36 | 37 | 36 | 43 | 44 | 48 | 50 | 51 | 51 | 50 | 49 | 47 | 43 | 41 | 33 | 32 | 32 | 31 | 31 |
| 22 | 27 | 27 | 26 | 26 | 24 | 24 | 23 | 23 | 22 | 25 | 26 | 27 | 28 | 29 | 30 | 29 | 28 | 40 | 38 | 36 | 42 | 42 | 42 | 42 |
| 23 | 27 | 27 | 26 | 25 | 24 | 24 | 23 | 22 | 22 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 28 | 23 | 19 | 20 | 30 | 31 | 30 | 29 |
| 24 | 19 | 19 | 24 | 19 | 18 | 18 | 21 | 22 | 24 | 29 | 32 | 37 | 39 | 39 | 40 | 40 | 37 | 31 | 20 | 20 | 21 | 21 | 21 | 21 |
| 25 | 24 | 27 | 27 | 26 | 29 | 22 | 24 | 29 | 35 | 39 | 43 | 44 | 43 | 43 | 45 | 40 | 40 | 38 | 30 | 30 | 27 | 27 | 27 | 27 |
| 26 | 24 | 25 | 23 | 23 | 22 | 22 | 21 | 19 | 23 | 28 | 30 | 32 | 35 | 37 | 38 | 35 | 35 | 30 | 32 | 32 | 31 | 30 | 25 | 25 |
| 27 | 22 | 22 | 21 | 22 | 22 | 23 | 23 | 24 | 27 | 32 | 38 | 40 | 41 | 42 | 41 | 40 | 38 | 30 | 25 | 25 | 24 | 24 | 24 | 28 |
| 28 | 20 | 25 | 26 | 26 | 25 | 25 | 24 | 26 | 20 | 21 | 22 | 22 | 23 | 25 | 28 | 26 | 24 | 36 | 33 | 32 | 30 | 29 | 28 | 28 |
| 29 | 7 | 5 | 5 | 5 | 4 | 4 | 3 | 2 | 5 | 12 | 17 | 19 | 22 | 24 | 25 | 24 | 24 | 22 | 20 | 17 | 16 | 15 | 11 | 8 |
| 30 | 12 | 13 | 11 | 13 | 11 | 11 | 12 | 12 | 16 | 22 | 27 | 31 | 32 | 34 | 35 | 33 | 30 | 19 | 14 | 15 | 15 | 14 | 13 | 13 |

MEAN

25. 24. 27. 27. 27. 26. 26. 26. 29. 34. 36. 37. 39. 40. 40. 40. 38. 35. 32. 31. 30. 29. 29. 29. 29.

TOTAL NUMBER OF OBSERVATIONS = 8299 MEAN = 32.

JOURNAL VARIATION OF TEMPERATURE AT 30 FEET (DEG F)
TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 MEA |
| 1 | 34 | 35 | 34 | 34 | 34 | 34 | 34 | 33 | 33 | 35 | 37 | 38 | 38 | 39 | 40 | 39 | 39 | 35 | 34 | 33 | 33 | 33 | 32 | 32 |
| 2 | 31 | 31 | 31 | 31 | 30 | 29 | 29 | 31 | 32 | 35 | 39 | 38 | 39 | 40 | 40 | 40 | 39 | 37 | 36 | 35 | 33 | 31 | 31 | 32 |
| 3 | 29 | 27 | 24 | 29 | 29 | 28 | 28 | 27 | 27 | 28 | 29 | 29 | 30 | 30 | 30 | 29 | 28 | 28 | 28 | 27 | 27 | 27 | 27 | 30 |
| 4 | 25 | 25 | 25 | 24 | 25 | 24 | 24 | 25 | 26 | 28 | 30 | 30 | 31 | 34 | 35 | 35 | 34 | 33 | 32 | 32 | 31 | 30 | 29 | 26 |
| 5 | 26 | 25 | 25 | 25 | 24 | 23 | 23 | 22 | 24 | 29 | 32 | 33 | 35 | 36 | 36 | 37 | 36 | 34 | 31 | 30 | 30 | 29 | 27 | 28 |
| 6 | 26 | 27 | 24 | 23 | 25 | 26 | 26 | 23 | 25 | 29 | 33 | 34 | 38 | 39 | 39 | 39 | 38 | 35 | 33 | 34 | 34 | 29 | 27 | 28 |
| 7 | 25 | 24 | 23 | 26 | 27 | 26 | 27 | 27 | 29 | 37 | 40 | 41 | 41 | 42 | 43 | 42 | 41 | 39 | 36 | 35 | 33 | 33 | 28 | 28 |
| 8 | 33 | 32 | 32 | 31 | 31 | 30 | 27 | 32 | 30 | 42 | 43 | 44 | 45 | 45 | 45 | 43 | 41 | 38 | 36 | 35 | 34 | 35 | 35 | 34 |
| 9 | 33 | 31 | 31 | 32 | 34 | 30 | 31 | 33 | 33 | 32 | 32 | 32 | 33 | 33 | 33 | 30 | 30 | 31 | 30 | 30 | 29 | 27 | 27 | 27 |
| 10 | 25 | 27 | 27 | 27 | 27 | 27 | 26 | 26 | 26 | 27 | 29 | 31 | 33 | 34 | 34 | 35 | 35 | 33 | 33 | 33 | 31 | 30 | 28 | 28 |
| 11 | 27 | 27 | 25 | 24 | 24 | 24 | 23 | 22 | 25 | 29 | 32 | 35 | 35 | 34 | 34 | 36 | 38 | 36 | 34 | 31 | 30 | 30 | 29 | 29 |
| 12 | 29 | 26 | 32 | 29 | 29 | 30 | 31 | 32 | 34 | 35 | 41 | 42 | 42 | 43 | 43 | 43 | 41 | 38 | 36 | 37 | 37 | 37 | 38 | 38 |
| 13 | 33 | 31 | 37 | 36 | 35 | 35 | 35 | 36 | 39 | 42 | 45 | 46 | 45 | 44 | 45 | 44 | 43 | 41 | 41 | 37 | 36 | 35 | 33 | 32 |
| 14 | 32 | 31 | 31 | 32 | 32 | 33 | 31 | 31 | 33 | 40 | 42 | 43 | 45 | 46 | 45 | 43 | 41 | 40 | 38 | 38 | 37 | 36 | 36 | 36 |
| 15 | 37 | 35 | 35 | 35 | 34 | 33 | 33 | 30 | 34 | 38 | 39 | 42 | 43 | 44 | 44 | 44 | 44 | 41 | 38 | 38 | 36 | 35 | 33 | 34 |
| 16 | 33 | 32 | 32 | 31 | 27 | 27 | 29 | 28 | 29 | 33 | 37 | 39 | 41 | 42 | 44 | 44 | 43 | 40 | 37 | 34 | 34 | 34 | 34 | 34 |
| 17 | 33 | 34 | 31 | 31 | 31 | 32 | 30 | 30 | 32 | 39 | 43 | 44 | 45 | 44 | 45 | 45 | 43 | 40 | 37 | 38 | 35 | 34 | 38 | 36 |
| 18 | 37 | 33 | 39 | 38 | 37 | 38 | 37 | 37 | 38 | 40 | 39 | 37 | 37 | 40 | 40 | 40 | 38 | 36 | 36 | 34 | 32 | 32 | 31 | 31 |
| 19 | 30 | 30 | 29 | 27 | 26 | 25 | 25 | 25 | 26 | 27 | 29 | 31 | 37 | 40 | 28 | 35 | 34 | 31 | 29 | 28 | 27 | 27 | 27 | 26 |
| 20 | 25 | 26 | 25 | 24 | 26 | 26 | 27 | 27 | 30 | 36 | 39 | 41 | 42 | 43 | 42 | 42 | 40 | 38 | 35 | 35 | 35 | 34 | 33 | 33 |
| 21 | 33 | 33 | 35 | 36 | 34 | 32 | 32 | 34 | 39 | 44 | 46 | 47 | 48 | 48 | 48 | 48 | 46 | 43 | 42 | 42 | 43 | 42 | 42 | 42 |
| 22 | 42 | 41 | 40 | 40 | 39 | 39 | 39 | 39 | 42 | 44 | 46 | 47 | 47 | 48 | 47 | 45 | 43 | 40 | 38 | 36 | 34 | 30 | 29 | 41 |
| 23 | 24 | 27 | 27 | 26 | 26 | 24 | 23 | 23 | 25 | 28 | 26 | 26 | 27 | 28 | 29 | 29 | 28 | 25 | 24 | 23 | 22 | 23 | 23 | 25 |
| 24 | 22 | 21 | 23 | 22 | 24 | 23 | 25 | 23 | 25 | 28 | 32 | 35 | 37 | 38 | 39 | 39 | 37 | 33 | 32 | 31 | 30 | 29 | 29 | 30 |
| 25 | 31 | 29 | 30 | 29 | 30 | 30 | 29 | 30 | 36 | 39 | 42 | 43 | 43 | 43 | 44 | 40 | 40 | 38 | 36 | 33 | 33 | 30 | 29 | 35 |
| 26 | 27 | 27 | 26 | 25 | 25 | 24 | 23 | 24 | 24 | 27 | 29 | 31 | 33 | 35 | 36 | 36 | 36 | 33 | 30 | 28 | 27 | 26 | 26 | 29 |
| 27 | 24 | 24 | 24 | 24 | 24 | 25 | 25 | 26 | 28 | 32 | 37 | 39 | 39 | 41 | 40 | 39 | 38 | 36 | 35 | 33 | 32 | 30 | 29 | 32 |
| 28 | 20 | 27 | 26 | 26 | 25 | 24 | 21 | 20 | 20 | 21 | 22 | 22 | 23 | 26 | 25 | 27 | 25 | 23 | 22 | 19 | 18 | 16 | 14 | 12 |
| 29 | 8 | 9 | 9 | 9 | 7 | 8 | 6 | 6 | 5 | 12 | 17 | 20 | 23 | 24 | 25 | 24 | 24 | 23 | 22 | 19 | 18 | 17 | 17 | 15 |
| 30 | 16 | 15 | 14 | 15 | 15 | 14 | 14 | 15 | 17 | 22 | 27 | 30 | 31 | 33 | 34 | 33 | 31 | 23 | 21 | 18 | 17 | 17 | 16 | 22 |

MEAN

31. 25. 29. 29. 28. 26. 27. 23. 29. 33. 35. 37. 36. 39. 39. 39. 39. 37. 36. 34. 33. 32. 31. 30. 30.

TOTAL NUMBER OF OBSERVATIONS = 8362 MEAN = 32.

JOURNAL VARIATION OF TEMPERATURE AT 100 FEET (DFG F)
TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

| DAY | HOUR | | | | | | | | | | | | | | | | | | | | | | | | MEAN |
|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1 | 35 | 35 | 35 | 34 | 34 | 34 | 34 | 33 | 33 | 35 | 36 | 37 | 37 | 38 | 39 | 39 | 34 | 36 | 35 | 34 | 33 | 33 | 33 | 32 | 35 |
| 2 | 32 | 32 | 33 | 32 | 31 | 30 | 31 | 31 | 32 | 35 | 38 | 38 | 40 | 40 | 40 | 39 | 39 | 38 | 38 | 37 | 33 | 31 | 30 | 30 | 35 |
| 3 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 27 | 27 | 27 | 26 | 29 | 29 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 27 | 27 | 27 | 26 | 28 |
| 4 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 25 | 26 | 27 | 27 | 29 | 31 | 33 | 34 | 35 | 35 | 34 | 33 | 33 | 32 | 32 | 30 | 26 | 29 |
| 5 | 27 | 27 | 25 | 24 | 24 | 24 | 24 | 24 | 24 | 26 | 32 | 33 | 35 | 36 | 36 | 37 | 37 | 34 | 32 | 32 | 30 | 29 | 28 | 26 | 33 |
| 6 | 29 | 29 | 25 | 24 | 23 | 23 | 23 | 23 | 24 | 26 | 33 | 34 | 35 | 36 | 34 | 39 | 38 | 36 | 35 | 32 | 31 | 29 | 28 | 28 | 31 |
| 7 | 30 | 30 | 31 | 29 | 28 | 28 | 29 | 29 | 31 | 37 | 41 | 41 | 41 | 42 | 43 | 43 | 42 | 40 | 38 | 36 | 35 | 34 | 34 | 30 | 36 |
| 8 | 35 | 34 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 26 | 28 | 44 | 45 | 45 | 45 | 44 | 42 | 40 | 38 | 37 | 35 | 36 | 37 | 36 | 39 |
| 9 | 34 | 32 | 31 | 31 | 31 | 31 | 31 | 32 | 32 | 26 | 28 | 31 | 33 | 33 | 34 | 30 | 31 | 32 | 31 | 31 | 29 | 29 | 29 | 29 | 32 |
| 10 | 24 | 27 | 26 | 26 | 26 | 27 | 26 | 26 | 26 | 26 | 26 | 31 | 35 | 37 | 35 | 35 | 35 | 34 | 33 | 33 | 32 | 29 | 29 | 29 | 30 |
| 11 | 29 | 28 | 27 | 25 | 25 | 25 | 24 | 24 | 25 | 29 | 32 | 34 | 36 | 37 | 38 | 39 | 38 | 37 | 36 | 34 | 32 | 34 | 32 | 29 | 32 |
| 12 | 30 | 32 | 31 | 31 | 31 | 31 | 32 | 33 | 35 | 37 | 41 | 42 | 42 | 43 | 43 | 43 | 42 | 39 | 38 | 37 | 38 | 38 | 38 | 31 | 37 |
| 13 | 42 | 43 | 39 | 37 | 36 | 36 | 36 | 38 | 40 | 42 | 45 | 46 | 46 | 46 | 45 | 45 | 44 | 43 | 42 | 38 | 38 | 35 | 34 | 34 | 41 |
| 14 | 34 | 34 | 34 | 34 | 34 | 33 | 33 | 33 | 36 | 40 | 42 | 44 | 46 | 46 | 46 | 44 | 42 | 40 | 39 | 38 | 38 | 38 | 37 | 34 | 39 |
| 15 | 38 | 37 | 36 | 34 | 34 | 33 | 33 | 33 | 35 | 38 | 40 | 42 | 45 | 45 | 45 | 44 | 42 | 40 | 41 | 39 | 39 | 38 | 37 | 37 | 39 |
| 16 | 34 | 33 | 33 | 33 | 32 | 32 | 32 | 33 | 35 | 38 | 37 | 42 | 45 | 45 | 44 | 45 | 45 | 43 | 42 | 37 | 36 | 36 | 34 | 35 | 39 |
| 17 | 35 | 35 | 34 | 33 | 33 | 33 | 33 | 35 | 37 | 40 | 43 | 44 | 45 | 45 | 45 | 45 | 44 | 42 | 39 | 39 | 37 | 36 | 37 | 37 | 37 |
| 18 | 34 | 34 | 33 | 33 | 33 | 33 | 33 | 35 | 37 | 40 | 43 | 44 | 45 | 45 | 45 | 45 | 44 | 41 | 39 | 34 | 32 | 32 | 32 | 32 | 39 |
| 19 | 31 | 31 | 30 | 29 | 27 | 27 | 27 | 28 | 30 | 33 | 35 | 36 | 37 | 37 | 36 | 35 | 35 | 33 | 31 | 31 | 29 | 29 | 29 | 28 | 30 |
| 20 | 28 | 27 | 26 | 27 | 25 | 27 | 27 | 28 | 30 | 35 | 38 | 41 | 42 | 43 | 43 | 42 | 41 | 39 | 37 | 37 | 37 | 36 | 35 | 34 | 35 |
| 21 | 35 | 35 | 36 | 36 | 36 | 34 | 35 | 36 | 36 | 44 | 46 | 46 | 47 | 47 | 47 | 46 | 45 | 45 | 44 | 44 | 44 | 44 | 43 | 43 | 43 |
| 22 | 42 | 43 | 42 | 41 | 41 | 41 | 42 | 42 | 42 | 44 | 46 | 46 | 47 | 47 | 47 | 46 | 44 | 41 | 39 | 37 | 34 | 31 | 29 | 29 | 41 |
| 23 | 27 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 | 24 | 24 | 26 | 26 | 27 | 28 | 29 | 29 | 28 | 29 | 25 | 24 | 24 | 25 | 26 | 26 |
| 24 | 25 | 25 | 25 | 24 | 25 | 25 | 24 | 24 | 26 | 28 | 31 | 35 | 37 | 38 | 39 | 40 | 38 | 35 | 34 | 33 | 31 | 31 | 32 | 32 | 31 |
| 25 | 32 | 31 | 32 | 31 | 32 | 32 | 31 | 32 | 36 | 39 | 42 | 43 | 42 | 43 | 44 | 44 | 41 | 39 | 37 | 35 | 34 | 32 | 31 | 30 | 36 |
| 26 | 29 | 27 | 27 | 26 | 25 | 25 | 24 | 24 | 25 | 27 | 29 | 31 | 33 | 35 | 36 | 36 | 36 | 34 | 33 | 31 | 28 | 28 | 29 | 28 | 33 |
| 27 | 27 | 27 | 25 | 25 | 25 | 25 | 25 | 27 | 28 | 31 | 37 | 39 | 39 | 41 | 40 | 39 | 38 | 37 | 36 | 34 | 34 | 32 | 30 | 28 | 33 |
| 28 | 29 | 26 | 25 | 25 | 25 | 24 | 23 | 18 | 18 | 19 | 20 | 21 | 21 | 24 | 27 | 26 | 24 | 22 | 21 | 18 | 17 | 15 | 13 | 12 | 22 |
| 29 | 8 | 9 | 8 | 8 | 7 | 7 | 7 | 7 | 5 | 10 | 15 | 18 | 20 | 23 | 24 | 24 | 24 | 22 | 21 | 18 | 17 | 15 | 13 | 12 | 15 |
| 30 | 17 | 16 | 14 | 15 | 16 | 15 | 16 | 16 | 17 | 20 | 26 | 29 | 31 | 32 | 33 | 33 | 31 | 23 | 22 | 20 | 18 | 16 | 18 | 17 | 23 |

MEAN 31. 31. 30. 30. 29. 29. 29. 29. 29. 30. 33. 35. 36. 38. 39. 39. 39. 39. 38. 37. 35. 34. 33. 32. 32. 31.

TOTAL NUMBER OF OBSERVATIONS = 8362 MEAN = 33.

JOURNAL VARIATION OF TEMPERATURE AT 200 FEET (DEG F)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | ME |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 35 | 34 | 34 | 34 | 34 | 34 | 34 | 33 | 33 | 35 | 36 | 38 | 39 | 41 | 39 | 37 | 35 | 34 | 34 | 34 | 33 | 33 | 33 | 33 | 33 |
| 2 | 32 | 32 | 32 | 32 | 31 | 32 | 32 | 31 | 31 | 33 | 40 | 40 | 41 | 41 | 41 | 39 | 38 | 38 | 37 | 36 | 34 | 31 | 30 | 29 | 29 |
| 3 | 29 | 29 | 26 | 26 | 26 | 28 | 27 | 27 | 27 | 27 | 26 | 29 | 29 | 29 | 29 | 29 | 28 | 27 | 27 | 27 | 27 | 27 | 27 | 26 | 26 |
| 4 | 25 | 25 | 24 | 24 | 25 | 24 | 24 | 25 | 26 | 33 | 35 | 34 | 37 | 37 | 38 | 35 | 34 | 34 | 31 | 31 | 30 | 29 | 29 | 26 | 26 |
| 5 | 24 | 23 | 23 | 22 | 22 | 21 | 22 | 23 | 27 | 30 | 37 | 36 | 39 | 39 | 41 | 40 | 39 | 36 | 32 | 32 | 29 | 25 | 25 | 26 | 26 |
| 6 | 27 | 27 | 25 | 25 | 25 | 27 | 26 | 24 | 27 | 36 | 36 | 35 | 40 | 40 | 41 | 40 | 39 | 36 | 35 | 30 | 30 | 25 | 25 | 26 | 26 |
| 7 | 30 | 34 | 33 | 33 | 33 | 33 | 33 | 29 | 33 | 38 | 40 | 42 | 42 | 43 | 43 | 42 | 42 | 39 | 37 | 35 | 34 | 34 | 30 | 29 | 29 |
| 8 | 30 | 34 | 33 | 33 | 33 | 33 | 33 | 36 | 38 | 42 | 44 | 45 | 47 | 47 | 48 | 44 | 42 | 39 | 37 | 35 | 34 | 34 | 34 | 35 | 35 |
| 9 | 34 | 32 | 32 | 31 | 31 | 31 | 31 | 31 | 32 | 42 | 44 | 45 | 47 | 47 | 48 | 44 | 42 | 39 | 38 | 36 | 36 | 36 | 37 | 37 | 37 |
| 10 | 27 | 27 | 28 | 28 | 27 | 27 | 25 | 26 | 27 | 30 | 33 | 36 | 35 | 34 | 35 | 31 | 31 | 34 | 30 | 30 | 28 | 28 | 27 | 27 | 27 |
| 11 | 27 | 27 | 26 | 26 | 24 | 25 | 24 | 23 | 24 | 33 | 36 | 38 | 40 | 39 | 36 | 36 | 35 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 31 |
| 12 | 30 | 31 | 31 | 31 | 31 | 31 | 32 | 33 | 35 | 37 | 41 | 46 | 46 | 43 | 43 | 43 | 42 | 39 | 37 | 37 | 37 | 37 | 38 | 38 | 38 |
| 13 | 34 | 34 | 34 | 37 | 35 | 35 | 36 | 38 | 41 | 42 | 45 | 46 | 47 | 44 | 45 | 45 | 45 | 42 | 40 | 38 | 36 | 34 | 32 | 31 | 31 |
| 14 | 32 | 31 | 31 | 33 | 34 | 34 | 32 | 33 | 37 | 42 | 44 | 45 | 47 | 47 | 46 | 44 | 41 | 40 | 40 | 39 | 38 | 37 | 37 | 37 | 37 |
| 15 | 36 | 37 | 35 | 37 | 35 | 35 | 35 | 36 | 36 | 39 | 44 | 45 | 47 | 46 | 45 | 44 | 45 | 43 | 40 | 39 | 38 | 37 | 37 | 37 | 37 |
| 16 | 34 | 32 | 31 | 32 | 29 | 28 | 25 | 24 | 33 | 36 | 39 | 43 | 45 | 46 | 47 | 46 | 46 | 42 | 41 | 38 | 36 | 35 | 33 | 32 | 32 |
| 17 | 35 | 34 | 33 | 32 | 31 | 32 | 32 | 33 | 36 | 41 | 43 | 44 | 46 | 45 | 46 | 46 | 43 | 42 | 41 | 38 | 37 | 35 | 35 | 35 | 35 |
| 18 | 38 | 39 | 39 | 39 | 37 | 37 | 37 | 38 | 38 | 40 | 39 | 39 | 46 | 45 | 46 | 40 | 40 | 40 | 35 | 33 | 31 | 31 | 31 | 31 | 31 |
| 19 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 26 | 25 | 27 | 32 | 33 | 36 | 44 | 43 | 35 | 35 | 32 | 31 | 31 | 31 | 31 | 29 | 27 | 27 |
| 20 | 29 | 27 | 27 | 27 | 27 | 29 | 24 | 29 | 31 | 36 | 40 | 42 | 48 | 49 | 43 | 42 | 41 | 38 | 36 | 36 | 36 | 36 | 35 | 35 | 35 |
| 21 | 34 | 36 | 35 | 37 | 35 | 35 | 35 | 36 | 40 | 44 | 46 | 47 | 48 | 48 | 48 | 48 | 46 | 43 | 44 | 44 | 43 | 43 | 42 | 42 | 42 |
| 22 | 43 | 42 | 42 | 41 | 41 | 44 | 42 | 42 | 42 | 45 | 46 | 47 | 49 | 48 | 47 | 46 | 44 | 40 | 38 | 37 | 34 | 31 | 30 | 29 | 29 |
| 23 | 28 | 25 | 20 | 20 | 24 | 23 | 23 | 22 | 24 | 30 | 30 | 32 | 32 | 36 | 35 | 32 | 29 | 27 | 27 | 27 | 23 | 22 | 21 | 21 | 21 |
| 24 | 24 | 22 | 23 | 22 | 24 | 25 | 23 | 22 | 23 | 35 | 39 | 42 | 41 | 41 | 41 | 41 | 38 | 35 | 34 | 33 | 31 | 30 | 31 | 32 | 32 |
| 25 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 32 | 37 | 39 | 43 | 43 | 43 | 43 | 44 | 44 | 41 | 38 | 37 | 35 | 34 | 32 | 30 | 27 | 27 |
| 26 | 26 | 25 | 25 | 25 | 26 | 27 | 24 | 22 | 26 | 30 | 32 | 34 | 35 | 36 | 37 | 36 | 36 | 33 | 29 | 29 | 27 | 26 | 26 | 27 | 27 |
| 27 | 25 | 25 | 25 | 25 | 26 | 27 | 27 | 27 | 30 | 33 | 38 | 40 | 40 | 42 | 40 | 38 | 38 | 36 | 35 | 34 | 33 | 32 | 30 | 27 | 27 |
| 28 | 20 | 27 | 25 | 25 | 25 | 24 | 23 | 19 | 19 | 20 | 26 | 21 | 21 | 25 | 28 | 25 | 24 | 22 | 21 | 19 | 17 | 16 | 14 | 13 | 13 |
| 29 | 9 | 13 | 6 | 7 | 4 | 2 | 4 | 5 | 5 | 16 | 22 | 25 | 30 | 30 | 29 | 28 | 24 | 22 | 21 | 19 | 17 | 16 | 14 | 13 | 13 |
| 30 | 14 | 14 | 13 | 13 | 12 | 11 | 13 | 19 | 19 | 25 | 32 | 35 | 35 | 35 | 36 | 34 | 31 | 19 | 16 | 16 | 15 | 17 | 17 | 15 | 15 |
| MEAN | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. | 37. |

TOTAL NUMBER OF OBSERVATIONS = 8318 MEAN = 33.

MONTHLY TOTAL SOLAR RADIATION (LANGLEY)
TRAILER NO. - 23 PERIOD (11/ 1/74 TO 11/30/74)

[illegible]

TOTAL NUMBER OF OBSERVATIONS = 8303 TOTAL = 4121.

TEMPERATURE CHANGE FROM 30' TO 100' (DEG F*10)
TRAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 8 | 6 | 2 | - | 0 | 0 | - | 1 | - | 1 | 4 | 7 | 11 | 11 | 8 | 10 | 11 |
| 2 | 9 | 11 | 12 | 13 | 7 | 7 | 14 | 11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | - | 1 | 3 | 4 | 11 | 5 | 2 | 2 | 1 |
| 3 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 7 | 8 | 2 | 2 | 1 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 13 | 15 | 21 | 17 | 13 | 21 | 15 | 14 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 11 | 15 | 15 | 16 | 19 | 18 |
| 6 | 14 | 17 | 25 | 24 | 13 | 14 | 25 | 19 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 8 | 15 | 12 | 9 | 7 | 17 | 13 |
| 7 | 25 | 15 | 19 | 23 | 23 | 25 | 25 | 29 | 22 | 0 | 0 | 3 | 3 | - | 1 | - | 2 | 17 | 26 | 17 | 22 | 27 | 28 | 21 |
| 8 | 25 | 20 | 22 | 23 | 31 | 34 | 52 | 39 | 11 | 0 | 0 | 3 | 3 | - | 1 | - | 0 | 16 | 16 | 18 | 19 | 13 | 16 | 26 |
| 9 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 1 | - | 2 | 1 | - | 1 | - | 0 | 9 | 8 | 12 | 9 | 8 | 9 | 8 |
| 10 | 2 | 3 | 7 | 9 | 5 | 3 | 0 | 0 | - | - | - | 7 | 9 | - | 2 | - | 2 | 5 | 0 | 1 | 4 | 2 | 6 | 21 |
| 11 | 15 | 11 | 22 | 17 | 15 | 15 | 15 | 24 | 1 | 4 | - | 5 | 4 | - | 6 | - | 1 | 2 | 17 | 39 | 25 | 16 | 6 | 8 |
| 12 | 19 | 33 | 20 | 19 | 15 | 15 | 15 | 12 | 1 | 5 | - | 5 | 4 | - | 4 | - | 0 | 6 | 17 | 4 | 3 | 3 | 27 | 21 |
| 13 | 5 | 5 | 9 | 7 | 11 | 25 | 31 | 21 | 5 | 0 | - | 7 | 0 | - | 3 | - | 0 | 5 | 7 | 4 | 7 | 2 | 4 | 15 |
| 14 | 2 | 30 | 29 | 20 | 29 | 34 | 25 | 24 | 23 | 2 | - | 4 | 3 | - | 3 | - | 0 | 4 | 5 | 9 | 6 | 8 | 6 | 6 |
| 15 | 9 | 10 | 14 | 12 | 14 | 15 | 15 | 15 | 9 | 1 | - | 7 | 7 | - | 2 | - | 0 | 5 | 10 | 21 | 22 | 8 | 7 | 13 |
| 16 | 15 | 9 | 15 | 17 | 15 | 15 | 16 | 13 | 10 | 0 | - | 8 | 5 | - | 6 | - | 2 | 12 | 22 | 22 | 14 | 13 | 20 | 23 |
| 17 | 24 | 19 | 23 | 25 | 25 | 25 | 32 | 31 | 12 | 3 | - | 6 | 9 | - | 7 | - | 1 | 4 | 11 | 8 | 10 | 12 | 5 | 13 |
| 18 | 5 | 0 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | - | - | 6 | 4 | - | 5 | - | 1 | 0 | 0 | - | 0 | 3 | 3 | 4 |
| 19 | 5 | 2 | 5 | 19 | 11 | 2 | 0 | 0 | - | - | - | 6 | 6 | - | 2 | - | 0 | 24 | 21 | 26 | 24 | 23 | 18 | 19 |
| 20 | 23 | 18 | 26 | 27 | 14 | 14 | 13 | 13 | 4 | 4 | - | 6 | 7 | - | 2 | - | 6 | 12 | 22 | 20 | 20 | 20 | 20 | 22 |
| 21 | 31 | 29 | 24 | 24 | 27 | 27 | 31 | 23 | 8 | 0 | - | 2 | 3 | - | 0 | - | 3 | 24 | 22 | 21 | 9 | 9 | 9 | 8 |
| 22 | 11 | 11 | 17 | 15 | 19 | 19 | 25 | 25 | 3 | 0 | - | 4 | 5 | - | 2 | - | 3 | 11 | 19 | 15 | 4 | 7 | 5 | 5 |
| 23 | 5 | 5 | 5 | 7 | 9 | 8 | 12 | 11 | 9 | 0 | - | 4 | 2 | - | 0 | - | 2 | 30 | 8 | 10 | 4 | 7 | 36 | 39 |
| 24 | 45 | 47 | 35 | 39 | 32 | 35 | 26 | 20 | 26 | 3 | - | 0 | 1 | - | 0 | - | 7 | 19 | 33 | 32 | 26 | 26 | 36 | 39 |
| 25 | 27 | 27 | 30 | 29 | 21 | 29 | 22 | 21 | 9 | 2 | - | 1 | 0 | - | 0 | - | 8 | 18 | 18 | 21 | 28 | 28 | 28 | 23 |
| 26 | 23 | 14 | 23 | 21 | 23 | 27 | 22 | 21 | 9 | 2 | - | 1 | 0 | - | 0 | - | 5 | 9 | 20 | 15 | 13 | 14 | 14 | 26 |
| 27 | 34 | 33 | 34 | 35 | 32 | 27 | 22 | 24 | 21 | 4 | - | 0 | 0 | - | 0 | - | 5 | 14 | 34 | 39 | 18 | 25 | 29 | 27 |
| 28 | 10 | 6 | 5 | 7 | 6 | 26 | 21 | 25 | 13 | 3 | 1 | 0 | 0 | - | 0 | - | 3 | 8 | 13 | 15 | 17 | 10 | 10 | 10 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | |

MEAN 15. 15. 17. 17. 16. 17. 16. 16. 8. -1. -3. -3. -3. -4. -3. -2. 2. 9. 16. 16. 14. 13. 14. 16. 16. 16. 14. 13. 14. 16.

TOTAL NUMBER OF OBSERVATIONS = 7556 MEAN = 9.

TEMPERATURE CHANGE FROM 30' TO 200' (DEG F*10)
 TAILER NO. - 23 PERIOD(11/ 1/74 TO 11/30/74)

HOUR

DAY

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|-----|-----|-----|-----|
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 4 | 3 | 2 | 5 | 4 | 8 | 9 | 9 | 6 | 2 | 23 | 18 | 5 | 6 | 11 | 4 | 6 | 4 | 4 | 12 | 14 | 10 | 13 | 14 |
| 2 | 12 | 9 | 4 | 13 | 14 | 13 | 11 | 12 | 27 | 29 | 1 | 1 | 16 | 18 | 12 | 14 | 9 | 3 | 1 | 2 | 9 | 3 | 2 | 1 |
| 3 | 1 | 8 | 1 | 9 | 9 | 9 | 1 | 0 | 1 | 2 | 58 | 31 | 3 | 2 | 21 | 3 | 2 | 3 | 5 | 2 | 2 | 0 | 0 | 0 |
| 4 | 2 | 4 | 5 | 3 | 3 | 6 | 3 | 5 | 22 | 55 | 44 | 29 | 21 | 33 | 17 | 12 | 0 | 0 | 8 | 7 | -7 | -10 | 8 | 0 |
| 5 | -10 | -17 | -1 | -14 | -12 | -13 | -23 | 11 | 53 | 48 | 36 | 21 | 20 | 25 | 19 | 8 | 4 | 8 | 17 | 25 | -13 | -28 | -22 | -10 |
| 6 | -3 | 13 | 10 | 5 | 11 | -4 | -5 | 29 | 32 | 23 | 6 | 7 | 3 | 13 | 19 | 15 | 9 | 15 | 29 | 11 | 5 | 15 | 26 | 14 |
| 7 | 25 | 9 | -12 | 9 | 11 | 16 | 20 | 30 | 40 | 6 | 5 | 5 | 17 | 9 | 4 | 3 | 5 | 0 | 12 | 11 | 12 | 12 | 22 | 23 |
| 8 | 24 | 23 | 21 | 26 | 31 | 39 | 54 | 50 | 23 | 2 | 6 | 26 | 20 | 8 | 10 | 4 | 0 | 7 | 14 | 5 | 19 | 8 | 14 | 15 |
| 9 | 7 | 9 | 6 | 6 | 6 | 4 | 0 | 2 | 13 | 11 | 6 | 5 | 17 | 0 | 10 | 0 | -4 | -4 | 0 | 6 | -3 | 7 | -1 | 12 |
| 10 | 20 | 11 | 6 | 9 | 6 | 7 | 1 | 0 | 10 | 41 | 40 | 43 | 20 | 11 | 12 | 14 | 7 | - | 3 | 6 | 9 | 8 | 1 | 1 |
| 11 | 4 | 5 | 12 | 15 | 6 | 15 | 20 | 13 | 42 | 35 | 39 | 30 | 22 | 31 | 14 | 5 | 4 | -6 | -2 | 47 | 38 | 16 | 21 | 17 |
| 12 | 21 | 20 | 13 | 22 | 25 | 19 | 14 | 17 | 8 | 5 | 9 | 9 | 11 | 12 | 12 | 14 | 5 | - | 7 | 5 | -1 | 0 | 3 | 3 |
| 13 | -1 | 5 | 11 | 14 | 10 | 16 | 30 | 26 | 12 | 3 | 1 | 0 | 5 | 6 | 1 | 4 | 11 | 9 | -8 | 13 | 1 | 8 | -12 | -4 |
| 14 | -1 | -4 | 4 | 18 | 26 | 44 | 20 | 20 | 43 | 14 | 13 | 20 | 13 | 8 | 2 | 1 | 2 | 9 | 18 | 5 | 3 | 5 | 4 | 7 |
| 15 | 10 | 14 | 14 | 12 | 10 | 16 | 23 | 35 | 20 | 6 | 8 | 14 | 17 | 14 | 5 | 1 | 2 | 13 | 8 | 3 | -3 | 1 | -2 | -13 |
| 16 | 11 | 1 | -14 | -18 | 17 | 11 | -7 | -2 | 36 | 34 | 20 | 28 | 37 | 30 | 23 | 22 | 13 | 13 | 37 | 25 | 0 | -20 | 2 | 12 |
| 17 | 22 | 7 | 16 | 10 | -4 | 23 | 27 | 31 | 30 | 15 | 3 | 1 | 6 | 3 | 3 | 3 | 1 | 2 | 15 | 6 | 10 | 10 | 0 | 11 |
| 18 | 5 | 4 | 8 | 0 | 0 | -2 | -1 | 0 | -2 | -6 | -4 | -4 | -8 | -4 | -2 | 0 | -5 | -6 | -3 | -6 | -4 | -8 | -10 | 3 |
| 19 | 5 | 2 | -3 | 5 | 8 | 9 | 0 | 0 | 2 | 7 | 31 | 24 | 5 | 4 | 3 | 3 | 3 | 15 | 20 | 27 | 33 | 29 | 18 | 8 |
| 20 | 7 | 15 | 17 | 23 | 13 | 10 | 20 | 25 | 14 | 4 | 10 | 7 | 5 | 5 | 3 | 3 | 3 | 15 | 20 | 27 | 33 | 29 | 18 | 8 |
| 21 | 21 | 23 | 8 | 0 | -5 | -30 | -21 | 6 | 67 | 59 | 59 | 61 | 26 | 63 | 43 | 32 | 18 | -29 | -36 | -7 | -13 | 9 | 11 | -3 |
| 22 | 7 | -2 | 5 | -16 | -23 | -21 | -4 | 11 | 31 | 42 | 50 | 46 | 28 | 21 | 12 | 11 | 7 | 4 | 8 | 10 | 6 | 3 | 5 | 6 |
| 23 | 21 | 23 | 8 | 0 | -5 | -30 | -21 | 6 | 67 | 59 | 59 | 61 | 26 | 63 | 43 | 32 | 18 | -29 | -36 | -7 | -13 | 9 | 11 | -3 |

MEAN

TOTAL NUMBER OF OBSERVATIONS = 5960 MEAN = 11.

APPENDIX A

STABILITY WIND ROSE DIAGRAMS

APPENDIX A STABILITY WIND ROSE DIAGRAMS

According to the data presented in AEC Safety Guide No. 23, the relationships between stability classes and σ_θ are as follows (the values shown are averages for each stability classification... σ_θ is the standard deviation of horizontal wind direction fluctuations).

| <u>Stability Classification</u> | <u>Pasquill Categories</u> | <u>Average Values
σ_θ
(degrees)</u> |
|---------------------------------|----------------------------|--|
| Extremely Unstable | A | 25.0° |
| Moderately Unstable | B | 20.0° |
| Slightly Unstable | C | 15.0° |
| Neutral | D | 10.0° |
| Slightly Stable | E | 5.0° |
| Moderately Stable | F | 2.5° |

Stability wind roses obtained at the trailers in the monitoring network are displayed in the following tables. Because of the relatively low heights above the surface (9 meters) at which the wind data is taken, the stability distributions are skewed toward the unstable end of the spectrum. That is, the unstable classes (A, B, and C) have a much higher frequency of occurrence than would be obtained with the Pasquill method of stability categorization (or with instruments at higher levels).

Table 1 depicts the frequency distribution of Pasquill stability categories based on σ_θ from data collected by M. M. Pendergast and T. V. Crawford at the Savannah River Plant ("Actual Standard Deviations of Vertical and Horizontal Wind Direction Compared to Estimates from Other Measurements", Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974). Three distinct range patterns of stability class

distributions were observed: low, mid, and high, according to the height at which the σ_θ measurements were taken.

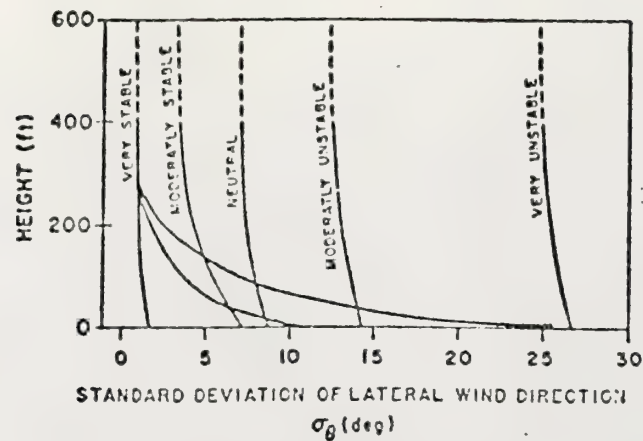
TABLE 1

Frequency distribution of Pasquill Stability Categories

| Height,
m | Stability Categories based on σ_θ | | | | | | | | |
|--------------|---|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------|------|-------|
| | A
$\sigma_\theta > 23$ | B
$18 \leq \sigma_\theta < 23$ | C
$13 \leq \sigma_\theta < 18$ | D
$8 \leq \sigma_\theta < 13$ | E
$4 \leq \sigma_\theta < 8$ | F
$2 \leq \sigma_\theta < 4$ | G
$\sigma_\theta < 2$ | | |
| 10 | 22.6 | 13.9 | 21.8 | 28.9 | 8.9 | 0.4 | 3.5 | LOW | RANGE |
| 36 | 19.3 | 11.8 | 19.4 | 32.4 | 15.9 | 0.7 | 0.5 | | |
| 91 | 9.6 | 6.7 | 13.5 | 21.7 | 29.6 | 16.4 | 2.5 | MID | RANGE |
| 137 | 9.3 | 5.8 | 11.7 | 20.8 | 28.5 | 18.4 | 5.5 | | |
| 182 | 7.0 | 2.9 | 6.8 | 17.1 | 25.9 | 25.6 | 14.7 | HIGH | RANGE |
| 243 | 7.7 | 4.3 | 9.4 | 17.7 | 27.6 | 22.9 | 10.4 | | |
| 304 | 7.2 | 3.7 | 8.0 | 17.2 | 28.7 | 23.9 | 11.3 | | |

Also, Figure 1 (from D. H. Slade, Meteorology and Atomic Energy, 1968, p. 52) demonstrates that the line representing very stable conditions (which by their nature are associated with light winds) branches into three separate lines near the ground. The curve at the left represents the smallest values of σ_θ usually observed. The curve that branches off to the right reflects the contribution of very low-level wind direction meander to the total standard deviation. These meandering oscillations decrease in amplitude very rapidly with height under stable conditions. The central curve represents typical inversion conditions. Actually, for a given stability condition, values of σ_θ will always be greater when the wind is light than when it is strong. This phenomena is most noticeable in the lowest layers.

Figure 1



The vertical variation of the lateral wind-direction standard deviation (σ_0) for various stability regimes. The curves represent average or typical conditions with the exception of the two outer "very stable" lines, which represent extremes.

The large surface values of σ_0 for unstable conditions do not decrease very rapidly with height. As in the case of very stable conditions, the greatest lateral fluctuations during a very unstable thermal structure occur with very light winds. As a general rule, for a given insolation condition, increasing wind speeds are associated with profiles of σ_0 that tend toward neutral stability.

The majority of the trailers in the network recorded very light winds throughout the month. Therefore, the stability distributions had a predominance of high σ_0 values and, hence, unstable classifications. Those trailers with the highest average winds (and fewest nearby obstacles to the flow) generally had the more reasonable and representative low-level stability class distributions.

STABILITY AND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. - 29 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - A

WIND DIRECTION

1935

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-----------|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|--------|
| GT 24 : | : | | | | | | | | | | | | | | | | : |
| 18 - 24 : | : | | | | | | | | | | | | | | | | : |
| 12 - 14 : | : | | | | | 1 | 14 | | | | | 1 | 1 | | | | : 17 |
| 7 - 12 : | : | | | 6 | 23 | 199 | 12 | 26 | 11 | 16 | 24 | 5 | 2 | 4 | 1 | | : 328 |
| 3 - 7 : | 1 | 2 | 4 | 58 | 156 | 298 | 72 | 127 | 77 | 39 | 45 | 41 | 18 | 13 | 8 | 3 | : 961 |
| LT 3 : | 9 | 1 | 65 | 460 | 610 | 428 | 119 | 159 | 110 | 57 | 81 | 93 | 94 | 56 | 33 | 16 | : 2391 |
| TOTAL : | 17 | 3 | 69 | 524 | 789 | 938 | 203 | 312 | 198 | 112 | 150 | 140 | 115 | 73 | 42 | 19 | : 3697 |

| | 1960 | 1970 | 1980 | 1990 | 2000 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | 1482(40.09 %) | 1482(40.09 %) | 1482(40.09 %) | 1482(40.09 %) | 1482(40.09 %) |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - 2

| WIND SPEED
KPH | WIND DIRECTION | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|-----|---|-----|----|-----|---|-----|-----|---|-------|
| | N | NNE | ENE | E | ESE | SE | SSE | S | SSW | WSW | W | |

| | | | | | | | | | | | | | | | |
|-----------|---|---|----|-----|-----|-----|----|----|----|----|----|-----|-----|----|---|
| GT 24 : | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | 1 | | | | | | | | : |
| 12 - 18 : | | | | 1 | 16 | | 1 | | | | | 1 | | | : |
| 7 - 12 : | | | | 21 | 167 | 3 | 3 | 3 | 7 | 9 | 12 | 10 | 7 | | : |
| 3 - 7 : | | | 2 | 35 | 127 | 235 | 24 | 35 | 18 | 7 | 11 | 57 | 42 | 19 | : |
| LT 3 : | | 3 | 9 | 169 | 254 | 183 | 24 | 23 | 13 | 7 | 30 | 92 | 75 | 28 | : |
| TOTAL : | 4 | 2 | 11 | 204 | 403 | 602 | 51 | 61 | 34 | 14 | 48 | 160 | 129 | 53 | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 473(25.79 %)

STABILITY AND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. - 2* PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - C

WIND DIRECTION

HEB.
CROSSING

| WIND SPEED
KPH | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------------|---|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|--------|
| GT 24 : | : | | | | | | | | | | | | | | | | : |
| 18 - 24 : | : | | | | | | | | | | | | | | | | : |
| 12 - 18 : | : | | | | 1 | 6 | | | | | | 2 | 2 | | | | : |
| 7 - 12 : | : | | | 6 | 7 | 113 | 1 | | | | 2 | 31 | 14 | 24 | 6 | 6 | : 212 |
| 3 - 7 : | : | 1 | 11 | 43 | 92 | 155 | 2 | 3 | 8 | | 4 | 69 | 40 | 17 | 7 | 5 | : 458 |
| LT 3 : | : | 8 | 19 | 172 | 275 | 168 | 10 | 6 | 4 | | 14 | 106 | 89 | 25 | 6 | 4 | : 914 |
| TOTAL : | : | 9 | 30 | 221 | 375 | 442 | 13 | 9 | 12 | 0 | 20 | 208 | 145 | 66 | 21 | 15 | : 1595 |

| | TOTAL NUMBER OF CALMS DISTRIBUTED | ABOVE - | 474(29.72 %) |
|-----|-----------------------------------|---------|----------------|
| 1 | 10 | 10 | 10 |
| 2 | 10 | 10 | 10 |
| 3 | 10 | 10 | 10 |
| 4 | 10 | 10 | 10 |
| 5 | 10 | 10 | 10 |
| 6 | 10 | 10 | 10 |
| 7 | 10 | 10 | 10 |
| 8 | 10 | 10 | 10 |
| 9 | 10 | 10 | 10 |
| 10 | 10 | 10 | 10 |
| 11 | 10 | 10 | 10 |
| 12 | 10 | 10 | 10 |
| 13 | 10 | 10 | 10 |
| 14 | 10 | 10 | 10 |
| 15 | 10 | 10 | 10 |
| 16 | 10 | 10 | 10 |
| 17 | 10 | 10 | 10 |
| 18 | 10 | 10 | 10 |
| 19 | 10 | 10 | 10 |
| 20 | 10 | 10 | 10 |
| 21 | 10 | 10 | 10 |
| 22 | 10 | 10 | 10 |
| 23 | 10 | 10 | 10 |
| 24 | 10 | 10 | 10 |
| 25 | 10 | 10 | 10 |
| 26 | 10 | 10 | 10 |
| 27 | 10 | 10 | 10 |
| 28 | 10 | 10 | 10 |
| 29 | 10 | 10 | 10 |
| 30 | 10 | 10 | 10 |
| 31 | 10 | 10 | 10 |
| 32 | 10 | 10 | 10 |
| 33 | 10 | 10 | 10 |
| 34 | 10 | 10 | 10 |
| 35 | 10 | 10 | 10 |
| 36 | 10 | 10 | 10 |
| 37 | 10 | 10 | 10 |
| 38 | 10 | 10 | 10 |
| 39 | 10 | 10 | 10 |
| 40 | 10 | 10 | 10 |
| 41 | 10 | 10 | 10 |
| 42 | 10 | 10 | 10 |
| 43 | 10 | 10 | 10 |
| 44 | 10 | 10 | 10 |
| 45 | 10 | 10 | 10 |
| 46 | 10 | 10 | 10 |
| 47 | 10 | 10 | 10 |
| 48 | 10 | 10 | 10 |
| 49 | 10 | 10 | 10 |
| 50 | 10 | 10 | 10 |
| 51 | 10 | 10 | 10 |
| 52 | 10 | 10 | 10 |
| 53 | 10 | 10 | 10 |
| 54 | 10 | 10 | 10 |
| 55 | 10 | 10 | 10 |
| 56 | 10 | 10 | 10 |
| 57 | 10 | 10 | 10 |
| 58 | 10 | 10 | 10 |
| 59 | 10 | 10 | 10 |
| 60 | 10 | 10 | 10 |
| 61 | 10 | 10 | 10 |
| 62 | 10 | 10 | 10 |
| 63 | 10 | 10 | 10 |
| 64 | 10 | 10 | 10 |
| 65 | 10 | 10 | 10 |
| 66 | 10 | 10 | 10 |
| 67 | 10 | 10 | 10 |
| 68 | 10 | 10 | 10 |
| 69 | 10 | 10 | 10 |
| 70 | 10 | 10 | 10 |
| 71 | 10 | 10 | 10 |
| 72 | 10 | 10 | 10 |
| 73 | 10 | 10 | 10 |
| 74 | 10 | 10 | 10 |
| 75 | 10 | 10 | 10 |
| 76 | 10 | 10 | 10 |
| 77 | 10 | 10 | 10 |
| 78 | 10 | 10 | 10 |
| 79 | 10 | 10 | 10 |
| 80 | 10 | 10 | 10 |
| 81 | 10 | 10 | 10 |
| 82 | 10 | 10 | 10 |
| 83 | 10 | 10 | 10 |
| 84 | 10 | 10 | 10 |
| 85 | 10 | 10 | 10 |
| 86 | 10 | 10 | 10 |
| 87 | 10 | 10 | 10 |
| 88 | 10 | 10 | 10 |
| 89 | 10 | 10 | 10 |
| 90 | 10 | 10 | 10 |
| 91 | 10 | 10 | 10 |
| 92 | 10 | 10 | 10 |
| 93 | 10 | 10 | 10 |
| 94 | 10 | 10 | 10 |
| 95 | 10 | 10 | 10 |
| 96 | 10 | 10 | 10 |
| 97 | 10 | 10 | 10 |
| 98 | 10 | 10 | 10 |
| 99 | 10 | 10 | 10 |
| 100 | 10 | 10 | 10 |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 20 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - D

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | NNW | TOTAL | |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|---|-----|----|-----|-------|-----|
| | N | NNE | ENE | E | ESE | SE | SSE | S | SSW | SW | | | WSW | W | WNW |
| GT 24 : | | | | | | | | | | | | | |
| 18 - 24 : | | | | | | | | | | | | | |
| 12 - 18 : | | | | | | | | | | | | | |
| 7 - 12 : | | | 1 | 5 | 2 | 65 | | | | | 4 | 4 | |
| 3 - 7 : | 1 | | 4 | 15 | 45 | 54 | 2 | 1 | | | 22 | 16 | 1 |
| LT 3 : | 8 | 1 | 16 | 178 | 224 | 115 | 1 | 4 | 1 | | 5 | 43 | 39 |
| TOTAL : | 9 | 1 | 21 | 198 | 271 | 234 | 3 | 5 | 1 | 0 | 5 | 69 | 59 |

WIND SPEED
MPH

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | NNW | TOTAL | |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|---|-----|----|-----|-------|-----|
| | N | NNE | ENE | E | ESE | SE | SSE | S | SSW | SW | | | WSW | W | WNW |
| GT 24 : | | | | | | | | | | | | | |
| 18 - 24 : | | | | | | | | | | | | | |
| 12 - 18 : | | | | | | | | | | | | | |
| 7 - 12 : | | | 1 | 5 | 2 | 65 | | | | | 4 | 4 | |
| 3 - 7 : | 1 | | 4 | 15 | 45 | 54 | 2 | 1 | | | 22 | 16 | 1 |
| LT 3 : | 8 | 1 | 16 | 178 | 224 | 115 | 1 | 4 | 1 | | 5 | 43 | 39 |
| TOTAL : | 9 | 1 | 21 | 198 | 271 | 234 | 3 | 5 | 1 | 0 | 5 | 69 | 59 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 380(42.51 %)

STABILITY AND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS -

34.

100

WIND DIRECTION:

| LINE | DATE | DESCRIPTION | DEBIT | CREDIT | BALANCE | DATE | DESCRIPTION | DEBIT | CREDIT | BALANCE |
|------|------|-------------|-------|--------|---------|------|-------------|-------|--------|---------|
| 1 | 1960 | 1/1 | | | 0.00 | | | | | |
| 2 | 1960 | 2/1 | | | 0.00 | | | | | |
| 3 | 1960 | 3/1 | | | 0.00 | | | | | |
| 4 | 1960 | 4/1 | | | 0.00 | | | | | |
| 5 | 1960 | 5/1 | | | 0.00 | | | | | |
| 6 | 1960 | 6/1 | | | 0.00 | | | | | |
| 7 | 1960 | 7/1 | | | 0.00 | | | | | |
| 8 | 1960 | 8/1 | | | 0.00 | | | | | |
| 9 | 1960 | 9/1 | | | 0.00 | | | | | |
| 10 | 1960 | 10/1 | | | 0.00 | | | | | |
| 11 | 1960 | 11/1 | | | 0.00 | | | | | |
| 12 | 1960 | 12/1 | | | 0.00 | | | | | |
| 13 | 1960 | 12/31 | | | 0.00 | | | | | |
| 14 | 1961 | 1/1 | | | 0.00 | | | | | |
| 15 | 1961 | 2/1 | | | 0.00 | | | | | |
| 16 | 1961 | 3/1 | | | 0.00 | | | | | |
| 17 | 1961 | 4/1 | | | 0.00 | | | | | |
| 18 | 1961 | 5/1 | | | 0.00 | | | | | |
| 19 | 1961 | 6/1 | | | 0.00 | | | | | |
| 20 | 1961 | 7/1 | | | 0.00 | | | | | |
| 21 | 1961 | 8/1 | | | 0.00 | | | | | |
| 22 | 1961 | 9/1 | | | 0.00 | | | | | |
| 23 | 1961 | 10/1 | | | 0.00 | | | | | |
| 24 | 1961 | 11/1 | | | 0.00 | | | | | |
| 25 | 1961 | 12/1 | | | 0.00 | | | | | |
| 26 | 1961 | 12/31 | | | 0.00 | | | | | |
| 27 | 1962 | 1/1 | | | 0.00 | | | | | |
| 28 | 1962 | 2/1 | | | 0.00 | | | | | |
| 29 | 1962 | 3/1 | | | 0.00 | | | | | |
| 30 | 1962 | 4/1 | | | 0.00 | | | | | |
| 31 | 1962 | 5/1 | | | 0.00 | | | | | |
| 32 | 1962 | 6/1 | | | 0.00 | | | | | |
| 33 | 1962 | 7/1 | | | 0.00 | | | | | |
| 34 | 1962 | 8/1 | | | 0.00 | | | | | |
| 35 | 1962 | 9/1 | | | 0.00 | | | | | |
| 36 | 1962 | 10/1 | | | 0.00 | | | | | |
| 37 | 1962 | 11/1 | | | 0.00 | | | | | |
| 38 | 1962 | 12/1 | | | 0.00 | | | | | |
| 39 | 1962 | 12/31 | | | 0.00 | | | | | |
| 40 | 1963 | 1/1 | | | 0.00 | | | | | |
| 41 | 1963 | 2/1 | | | 0.00 | | | | | |
| 42 | 1963 | 3/1 | | | 0.00 | | | | | |
| 43 | 1963 | 4/1 | | | 0.00 | | | | | |
| 44 | 1963 | 5/1 | | | 0.00 | | | | | |
| 45 | 1963 | 6/1 | | | 0.00 | | | | | |
| 46 | 1963 | 7/1 | | | 0.00 | | | | | |
| 47 | 1963 | 8/1 | | | 0.00 | | | | | |
| 48 | 1963 | 9/1 | | | 0.00 | | | | | |
| 49 | 1963 | 10/1 | | | 0.00 | | | | | |
| 50 | 1963 | 11/1 | | | 0.00 | | | | | |
| 51 | 1963 | 12/1 | | | | | | | | |

29 29 ::

19-24-22

2
3
4
5

212

23

L 333

TOTAL

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE -

83(50.61 %)

STABILITY KIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 28 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - TOTAL.

WIND DIRECTION:

TOTAL
NNN
32

U. S. 5. 1. 1.

三

| CT | 24 | : | 1 | : | 1 | : |
|-------|----|---|-----|---|-----|---|
| 18 - | 24 | : | 1 | : | 1 | : |
| 12 - | 14 | : | 4 | : | 3 | : |
| 7 - | 12 | : | 33 | : | 32 | : |
| 3 - | 7 | : | 69 | : | 45 | : |
| LT | 3 | : | 130 | : | 127 | : |
| TOTAL | | : | 223 | : | 211 | : |

[illegible]

| | | | |
|---------------|-------------|---|---------|
| PERCENTAGE OF | A STABILITY | - | 45.53 % |
| PERCENTAGE OF | P STABILITY | - | 22.34 % |
| PERCENTAGE OF | C STABILITY | - | 19.43 % |
| PERCENTAGE OF | D STABILITY | - | 10.89 % |
| PERCENTAGE OF | E STABILITY | - | 2.00 % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - F

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|----|-----|-----|-----|------|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| GT 24 : | | | | | | | | | | | | | | | | | : | |
| 18 - 24 : | | | | | | | | | | | | | | | 1 | | 1 | |
| 12 - 18 : | | | | | | | 10 | | | | | | 1 | 3 | 2 | 2 | 18 | |
| 7 - 12 : | 1 | 1 | | 15 | 79 | 29 | 73 | 12 | 1 | 1 | 3 | 3 | 4 | 5 | 34 | 3 | 264 | |
| 3 - 7 : | 3 | 0 | 1 | 16 | 130 | 176 | 126 | 40 | 6 | 5 | 4 | 4 | 10 | 42 | 76 | 13 | 652 | |
| LT 3 : | 13 | 7 | 4 | 20 | 96 | 176 | 119 | 71 | 16 | 6 | 8 | 12 | 25 | 56 | 60 | 29 | 718 | |
| TOTAL : | 17 | 8 | 5 | 51 | 305 | 381 | 328 | 123 | 23 | 12 | 15 | 19 | 40 | 106 | 173 | 47 | 1653 | |

.....
TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 400(24.20 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - C

WIND SPEED
KPH

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|--|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
|--|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|

GT 24 :

18 - 24 :

12 - 18 :

7 - 12 :

3 - 7 :

LT 3 :

TOTAL :

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TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE -

336(22.44 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - F

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | TOTAL | | | | |
|-------------------|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-------|-----|---|-----|----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | | WSW | W | WNW | NW | NNW | TOTAL |

| | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|----|----|----|---|---|---|---|---|---|---|----|----|-----|----|
| GT 24 : | | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | | | | | | | | | 3 | | 3 |
| 12 - 18 : | | | | | | | | | | | | | | | 2 | | 2 |
| 7 - 12 : | | | | 2 | | 1 | | 1 | | | | | | | 1 | | 5 |
| 3 - 7 : | | | 1 | 4 | 9 | 5 | | 0 | | | | 2 | 1 | 1 | 1 | 1 | 23 |
| LT 3 : | 2 | 3 | | 34 | 29 | 11 | 3 | 0 | | | | 4 | 2 | 15 | 15 | 103 | |
| TOTAL : | 3 | 3 | 4 | 38 | 40 | 17 | 3 | 1 | 2 | 0 | 0 | 6 | 9 | 16 | 16 | 136 | |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 88(64.71 %)

CONFIDENTIAL

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - TOTAL

| WIND SPEED
MPH | N | NNE | NE | ENE | E | ESE | SE | SSE | WIND DIRECTION | | | | NNW | NW | TOTAL |
|-------------------|-----|-----|----|-----|------|------|------|-----|----------------|-----|----|-----|-----|-------|-------|
| | | | | | | | | | SW | WSW | W | WNW | | | |
| GT 24 : | | | | | | | | | | | | | | | |
| 18 - 24 : | | | | | | | | | | | | | | | |
| 12 - 18 : | | | | | 1 | | 22 | 3 | | | | | 19 | 1 : | 60 |
| 7 - 12 : | 1 | 2 | 55 | 450 | 140 | 215 | 73 | 17 | 1 | | 2 | 6 | 70 | 5 : | 110 |
| 3 - 7 : | 14 | 4 | 8 | 90 | 703 | 655 | 421 | 201 | 73 | 34 | 47 | 240 | 297 | 16 : | 1184 |
| LT 3 : | 103 | 41 | 41 | 155 | 560 | 734 | 601 | 365 | 153 | 71 | 52 | 65 | 100 | 55 : | 2863 |
| TOTAL : | 123 | 47 | 49 | 349 | 1731 | 1530 | 1259 | 642 | 245 | 107 | 76 | 104 | 158 | 185 : | 3792 |

.....
TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 1971(24.61 %)
.....

| | | |
|---------------|---------------|---------|
| PERCENTAGE OF | A STABILITY - | 46.07 % |
| PERCENTAGE OF | B STABILITY - | 20.64 % |
| PERCENTAGE OF | C STABILITY - | 18.69 % |
| PERCENTAGE OF | D STABILITY - | 12.56 % |
| PERCENTAGE OF | E STABILITY - | 1.70 % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - A

| WIND SPEED
SP4 | | WIND DIRECTION | | | | | | | | | | | | | | NW | NNW | TOTAL |
|-------------------|---|----------------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | | | |
| GT 24 | : | | | | | | | | | | | | | | | | | |
| 18 - 24 | : | | | | | 2 | | | | | | | | | | | | |
| 12 - 18 | : | | 1 | | 42 | 6 | | | | | | 4 | 3 | 2 | | | | 2 |
| 7 - 12 | : | | 9 | 2 | 32 | 150 | 65 | 19 | 2 | 2 | 3 | 16 | 52 | 34 | 10 | 3 | 1 | 391 |
| 3 - 7 | : | 12 | 30 | 81 | 190 | 182 | 142 | 69 | 20 | 20 | 35 | 73 | 98 | 76 | 27 | 26 | 16 | 1117 |
| LT 3 | : | 20 | 113 | 144 | 202 | 123 | 80 | 44 | 34 | 37 | 52 | 71 | 77 | 43 | 32 | 23 | 19 | 1122 |
| TOTAL | : | 43 | 144 | 227 | 424 | 499 | 293 | 132 | 56 | 50 | 90 | 160 | 231 | 156 | 71 | 52 | 36 | 2670 |
| | | | | | | | | | | | | | | | | | | |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 399(14.94 %)

STABILITY AND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS -

2

WIND DIRECTION

WIND SPEED
MPH

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-----------|----|-----|----|-----|-----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|-------|
| GT 24 : | | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | | | | | | | | | | | : |
| 12 - 18 : | | | | 14 | | | | | | | | 6 | 1 | | | | : |
| 7 - 12 : | 1 | | 29 | 114 | 12 | | | | | 10 | 35 | 31 | 2 | | | | : |
| 3 - 7 : | 9 | 15 | 44 | 143 | 120 | 26 | 11 | 4 | 8 | 63 | 77 | 47 | 3 | 2 | 6 | 578 | : |
| LT 3 : | 17 | 33 | 53 | 102 | 71 | 37 | 8 | 4 | 14 | 22 | 28 | 35 | 20 | 5 | 0 | 12 | : |
| TOTAL : | 20 | 48 | 97 | 274 | 319 | 75 | 19 | 4 | 18 | 30 | 101 | 154 | 99 | 10 | 2 | 18 | : |

.....
TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 199(15.45 %)
.....

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - C

WIND DIRECTION

| WIND SPEED
MPH | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------------|----|-----|-----|-----|------|-----|----|-----|---|-----|----|-----|----|-----|----|-----|-------|
| GT 24 : | | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | | | | | | | | | | | : |
| 12 - 18 : | | | | | | | | | | | | | | | | | : |
| 7 - 12 : | | | | | | | | | | | | | | | | | : |
| 3 - 7 : | | | | | | | | | | | | | | | | | : |
| LT 3 : | | | | | | | | | | | | | | | | | : |
| TOTAL : | 22 | 42 | 153 | 651 | 1211 | 55 | 14 | 4 | 4 | 9 | 55 | 233 | 62 | 8 | 5 | 17 | 2576 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE -

2200

8.54 %

STABILITY AND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - D

| WIND SPEED
MPH | | WIND DIRECTION | | | | | | | | | | NW | NNW | TOTAL |
|---|---|----------------|-----|----|-----|-----|-----|----|-----|---|-----|------|--------|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | WSW | W | MNW |
| GT 24 | : | | | | | | | | | | | | | |
| 18 - 24 | : | | | | | | | | | | | | | |
| 12 - 18 | : | | | | 9 | 127 | | | | | | | | |
| 7 - 12 | : | 1 | | 3 | 116 | 554 | | | | 1 | 1 | 25 | 3 | |
| 3 - 7 | : | 10 | | 35 | 97 | 196 | 3 | 1 | | 0 | 0 | 34 | 7 | |
| LT 3 | : | 15 | 10 | 20 | 51 | 57 | 12 | 2 | 1 | 0 | 0 | 8 | 6 | 1 |
| TOTAL | : | 32 | 10 | 56 | 273 | 934 | 15 | 3 | 1 | 3 | 1 | 15 | 16 | 1 |
| | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | 1050 | 7,28 X |) |

BOOKS

STABILITY CLASS - E

1000

| GT | 20 | : | : | : |
|-------|----|---|------|-----|
| 13 - | 24 | : | : | 23 |
| 12 - | 18 | : | : | 104 |
| 7 - | 12 | : | 4 : | 28 |
| 3 - | 7 | : | 8 : | 52 |
| LT | 3 | : | 12 : | 213 |
| TOTAL | | : | | |

..... TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 32(15.02 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. - 22 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - TOTAL

WIND DIRECTION

| WIND SPEED
MPH | | N | NNE | NW | E | ENE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | | | | |
|-------------------|----|---|-----|-----|-----|------|------|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|----|------|----|------|
| GT | 24 | : | | | | | | | | | | | | | | | : | | | | |
| 18 - | 24 | : | | | 2 | | | | | | | | | | | | : | | | | |
| 12 - | 18 | : | | | 15 | 319 | 6 | | | | 1 | 16 | 6 | 3 | | | : | | | | |
| 7 - | 12 | : | | | 14 | 373 | 1575 | 82 | 19 | 2 | 33 | 214 | 92 | 12 | 3 | 2 | 2426 | | | | |
| 3 - | 7 | : | | | 43 | 51 | 286 | 761 | 656 | 193 | 87 | 22 | 26 | 47 | 174 | 308 | 149 | 33 | 29 | 37 | 3071 |
| LT | 3 | : | | | 75 | 125 | 295 | 512 | 375 | 161 | 64 | 43 | 55 | 82 | 124 | 155 | 88 | 43 | 32 | 56 | 2354 |
| TOTAL | | : | 125 | 243 | 570 | 1651 | 3127 | 442 | 170 | 67 | 83 | 131 | 332 | 689 | 335 | 91 | 64 | 95 | 8224 | | |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 955(11.62 %)

PERCENTAGE OF A STABILITY - 32.48 %
 PERCENTAGE OF B STABILITY - 15.67 %
 PERCENTAGE OF C STABILITY - 31.34 %
 PERCENTAGE OF D STABILITY - 17.54 %
 PERCENTAGE OF E STABILITY - 2.59 %

STABILITY AND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. " 24 PERIOD (1/ 1/74 TO 11/30/74)

STABILITY CLASS - A

WIND DIRECTION

MA
OFFICE UNIT

[illegible]

| GT | 24 | : | 1 | 6 | 2 | 7 | 9 | 4 | 6 | 1 | 2 | : | 43 | | | | | | |
|-------|----|---|----|-----|-----|-----|-----|-----|-----|-----|-----|----|------|-----|----|----|---|----|------|
| 18 - | 24 | : | | | | | | | | | | : | 9 | | | | | | |
| 12 - | 18 | : | | | | | | | | | | : | 43 | | | | | | |
| 7 - | 12 | : | | | | | | | | | | : | 245 | | | | | | |
| 3 - | 7 | : | | | | | | | | | | : | 854 | | | | | | |
| LT | 3 | : | | | | | | | | | | : | 1565 | | | | | | |
| TOTAL | | : | 33 | 147 | 509 | 465 | 231 | 136 | 316 | 253 | 142 | 71 | 70 | 108 | 94 | 51 | 9 | 14 | 2716 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 907 (33.39 %)

ATLANTIC RICHFIELD COMPANY

STABILITY CLASS -

UNITED STATES

WIND DIRECTION

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TOTAL. ::

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 324 (23.53 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - C

WIND DIRECTION

| WIND SPEED
MPH | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------------|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|----|-----|-------|
| GT 24 : | | | | | | | | 1 | | | | | | | | 1 |
| 15 - 24 : | | | | | | | | | 4 | 1 | | 1 | | | | 7 |
| 12 - 15 : | | | | | 1 | | 4 | 10 | 8 | 4 | 5 | 9 | 2 | 1 | | 44 |
| 7 - 12 : | 1 | 1 | 2 | 2 | 5 | 2 | 21 | 35 | 10 | 7 | 14 | 27 | 28 | 5 | 4 | 165 |
| 3 - 7 : | 4 | 17 | 69 | 168 | 80 | 20 | 26 | 27 | 13 | 15 | 17 | 36 | 18 | 6 | 0 | 519 |
| LT 3 : | 8 | 27 | 94 | 197 | 87 | 15 | 23 | 20 | 18 | 17 | 27 | 50 | 30 | 11 | 2 | 640 |
| TOTAL : | 13 | 45 | 165 | 367 | 173 | 37 | 74 | 93 | 53 | 46 | 58 | 119 | 86 | 24 | 7 | 1376 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 341(21.87 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - D

WIND SPEED
"MPH

WIND DIRECTION

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-----------|----|-----|-----|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| GT 24 : | | | | | | | | | | | | | | | | | : |
| 18 - 24 : | | | | | | | | | | | | | 1 | | | | : |
| 12 - 18 : | | | | | | | | 3 | 5 | 1 | | | 3 | 2 | 2 | | : |
| 7 - 12 : | | 3 | 3 | 2 | | 5 | 12 | 3 | 4 | 7 | 3 | 12 | 10 | 1 | 3 | | : |
| 3 - 7 : | 6 | 24 | 202 | 69 | 6 | 10 | 8 | 3 | 8 | 9 | 9 | 6 | 5 | 6 | 0 | 1 | : |
| LT 3 : | 8 | 37 | 207 | 63 | 1 | 3 | 3 | 3 | 3 | 4 | 8 | 9 | 2 | 9 | 2 | 8 | : |
| TOTAL : | 14 | 64 | 412 | 498 | 134 | 7 | 18 | 26 | 20 | 21 | 20 | 27 | 21 | 18 | 7 | 9 | : |

.....

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 298(22.64 %)

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STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY
TRAILER NO. - 24 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - E

| WIND SPEED
KPH | GT | 24 | : | WIND DIRECTION | | | | | | | | | | | | | | | | NW | NNW | TOTAL |
|-------------------|-------|----|---|----------------|-----|-----|-----|----|-----|----|-----|---|-----|----|-----|---|-----|---|---|----|-----|-------|
| | | | | N | NNE | NE | ESE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | | | | | |
| | 7 | 12 | : | | 1 | | | 1 | | | 1 | | 3 | | | | | | | | 7 | |
| | 3 | 7 | : | 1 | 3 | 60 | 60 | 14 | 2 | 4 | | 0 | 3 | 4 | 0 | | | | 1 | | 152 | |
| | LT | 3 | : | 1 | 8 | 55 | 92 | 13 | 2 | 3 | | 0 | 1 | 1 | 1 | | | 1 | 0 | | 178 | |
| | TOTAL | : | | 2 | 12 | 115 | 152 | 26 | 4 | 7 | 0 | 1 | 5 | 5 | 4 | 0 | 0 | 1 | 1 | | 337 | |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 104(30.86 %)

STABILITY CLASS - TOTAL

WIND DIRECTION

| WIND SPEED | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|------------|----|---|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-------|
| MPH | | | | | | | | | | | | | | | | | | |
| GT | 24 | : | | | | | | | | | 1 | | | | | | : | 1 |
| 18 - | 24 | : | | | | | | 5 | 15 | 11 | 1 | 1 | | 2 | | | : | 35 |
| 12 - | 18 | : | | | | 2 | 1 | 25 | 34 | 46 | 12 | 3 | 15 | 27 | 6 | 3 | : | 176 |
| 7 - | 12 | : | 1 | 19 | 11 | 7 | 25 | 148 | 148 | 64 | 33 | 36 | 83 | 65 | 10 | 7 | : | 688 |
| 3 - | 7 | : | 21 | 182 | 552 | 767 | 258 | 197 | 160 | 93 | 73 | 82 | 103 | 63 | 26 | 0 | 5 | 2597 |
| LT | 3 | : | 50 | 222 | 847 | 1010 | 378 | 154 | 149 | 103 | 103 | 116 | 164 | 112 | 60 | 21 | 44 | 3653 |
| TOTAL | | : | 52 | 334 | 1410 | 1774 | 663 | 529 | 526 | 319 | 223 | 237 | 366 | 269 | 102 | 31 | 49 | 7150 |

| | 1934 | (27.05 %) |
|---|------|-------------|
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | |

| | | | | |
|---|-----------|---|-------|---|
| A | STABILITY | - | 37.99 | % |
| B | STABILITY | - | 19.26 | % |
| C | STABILITY | - | 19.24 | % |
| D | STABILITY | - | 18.41 | % |
| E | STABILITY | - | 4.71 | % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 8 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - A

| WIND SPEED
KPH | WIND DIRECTION | | | | | | | | | | | | | | | | |
|---|----------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|---------------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
| GT 24 : | | | | | | | | | 1 | 2 | | | | | | | : |
| 16 - 24 : | | | | | | | | | 13 | 12 | 1 | 1 | | | | | : 3 |
| 12 - 16 : | | | | | | | | | | | | | | | | | : 27 |
| 7 - 12 : | | | | | | 3 | 8 | 8 | 40 | 35 | 16 | 5 | 3 | | | | : 119 |
| 3 - 7 : | 2 | 13 | 21 | 37 | 36 | 30 | 54 | 47 | 35 | 67 | 47 | 19 | 9 | 3 | 9 | 15 | : 441 |
| LT 3 : | 7 | 29 | 42 | 67 | 64 | 57 | 60 | 72 | 84 | 114 | 71 | 19 | 23 | 16 | 18 | 16 | : 759 |
| TOTAL : | 9 | 39 | 63 | 104 | 100 | 90 | 122 | 127 | 173 | 231 | 135 | 44 | 35 | 19 | 27 | 31 | : 1349 |
| | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | | | | | | 326(24.17 %) |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 8 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - B

| WIND SPEED
KPH | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|---|----------------|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|-------------|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| GT 24 : | | | | | | | | | 3 | 21 | 1 | | | | | | : | |
| 18 - 24 : | | | | | | | | | 7 | 37 | 5 | 2 | 1 | | | | : 25 | |
| 12 - 18 : | | | | | | | | | 7 | 37 | 5 | 2 | 1 | | | | : 52 | |
| 7 - 12 : | | | | | | 1 | 4 | 6 | 7 | 40 | 17 | 13 | 4 | 2 | 1 | 1 | : 96 | |
| 3 - 7 : | 1 | 2 | 7 | 6 | 22 | 35 | 37 | 34 | 22 | 21 | 82 | 19 | 8 | 9 | 11 | 10 | : 326 | |
| LT 3 : | 1 | 3 | 11 | 4 | 9 | 9 | 11 | 13 | 11 | 19 | 42 | 11 | 7 | 0 | 6 | 8 | : 170 | |
| TOTAL : | 2 | 13 | 18 | 10 | 31 | 45 | 52 | 53 | 50 | 138 | 147 | 45 | 20 | 11 | 18 | 19 | : 669 | |
| | | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | | | | | | 44(6.58 X) | |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 8 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - C

| WIND SPEED
MPH | GT | WIND DIRECTION | | | | | | | | | | | NNW | NNW | TOTAL |
|---|----|----------------|-----|----|-----|----|----|-----|----|-----|----|-----|-----|-----|-------------|
| | | N | NNE | NE | ESE | E | SE | SSE | S | SSW | SW | WSW | W | WNW | TOTAL |
| 18 - | 24 | : | | | | | | 4 | 14 | | | | | | : |
| 12 - | 18 | : | | | | | | 2 | 26 | 7 | 1 | 2 | | | : |
| 7 - | 12 | : | | | | | 3 | 11 | 7 | 18 | 13 | 4 | 1 | 25 | 123 |
| 3 - | 7 | : | 5 | 3 | 4 | 9 | 32 | 52 | 43 | 22 | 14 | 16 | 33 | 25 | 421 |
| LT | 3 | : | 1 | 4 | 3 | 2 | 4 | 8 | 3 | 4 | 14 | 37 | 11 | 2 | 117 |
| TOTAL | : | 8 | 7 | 7 | 11 | 42 | 60 | 54 | 36 | 31 | 90 | 147 | 49 | 52 | 727 |
| | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | | | | 26(3.58 %) |

STABILITY WIND ROSE DIAGRAM

ATLANTIC HIGHRISE COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 8 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - D

| WIND SPEED
MPH | | WIND DIRECTION | | | | | | | | | | | |
|---|---|----------------|-----|----|-----|----|-----|----|-----|----|-----|-----|--------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW |
| GT 24 | : | | | | | | | | | | | | |
| 18 - 24 | : | | | | | | | 1 | 2 | | | | |
| 12 - 18 | : | | | | | | | 0 | 14 | 1 | | | |
| 7 - 12 | : | | | | | | | 2 | 4 | 6 | 3 | 0 | |
| 3 - 7 | : | 2 | 3 | 2 | 3 | 19 | 19 | 26 | 11 | 9 | 5 | 17 | 1 |
| LT 3 | : | 2 | 2 | 1 | 4 | 4 | 2 | 1 | 0 | 2 | 2 | 4 | 0 |
| TOTAL | : | 4 | 5 | 3 | 7 | 23 | 21 | 29 | 15 | 17 | 26 | 22 | 1 |
| | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | 140 | 4.26 % |
| | | | | | | | | | | | | | |

STABILITY WIND ROSE DIAGRAM

ATLANTIC HIGHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 8 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - E

| WIND SPEED | | WIND DIRECTION | | | | | | | | | | | NW | NNW | TOTAL | |
|------------|----|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|----|-----|-------|-----|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | | | | WSW | W | NNW |
| GT | 24 | : | | | | | | | | | | | | | | : |
| 18 - | 24 | : | | | | | | | | | | | | | | : |
| 12 - | 18 | : | | | | | | | | | | | | | | : |
| 7 - | 12 | : | | | | | | | | | | | | | | : |
| 3 - | 7 | : | 2 | 1 | 1 | 1 | 3 | 4 | | 1 | 2 | | | | 38 | 53 |
| LT | 3 | : | 5 | 5 | 1 | 1 | 2 | 1 | | 1 | 0 | | | | 30 | 46 |
| TOTAL | | : | 7 | 6 | 2 | 1 | 3 | 4 | 4 | 0 | 2 | 2 | 0 | 0 | 68 | 99 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 5(5.05 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC HIGHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 8 FEET PERIOD (11/ 1/74 TO 11/30/74)

STABILITY CLASS - TOTAL

| WIND SPEED
KPH | WIND DIRECTION | | | | | | | | | | | | | | | TOTAL |
|--|----------------|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------|--------|-------|
| | NNF | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| 01 - 24 | : | | | | | | | | | | | | | | : | |
| 18 - 24 | : | | | | | | 9 | 39 | 1 | | | | | | 1 : 50 | |
| 12 - 18 | : | | | | | | 22 | 80 | 14 | 4 | 3 | | | 1 34 : 167 | | |
| 7 - 12 | : | | | | 4 | 17 | 29 | 60 | 97 | 46 | 22 | 8 | 30 | 44 47 : 404 | | |
| 3 - 7 | : | 12 | 19 | 35 | 55 | 116 | 130 | 164 | 114 | 79 | 112 | 238 | 72 | 51 48 47 105 : 1406 | | |
| LT 3 | : | 13 | 48 | 54 | 70 | 83 | 82 | 80 | 82 | 94 | 136 | 170 | 45 | 42 25 39 96 : 1164 | | |
| TOTAL | : | 34 | 67 | 89 | 125 | 199 | 225 | 261 | 225 | 264 | 473 | 469 | 143 | 104 103 131 283 : 3191 | | |
| | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 4150 (13.01 %) | | | | | | | | | | | | | | | | |

| | | | |
|-----------------|-----------|---|---------|
| PERCENTAGE OF A | STABILITY | - | 42.28 % |
| PERCENTAGE OF B | STABILITY | - | 20.97 % |
| PERCENTAGE OF C | STABILITY | - | 22.78 % |
| PERCENTAGE OF D | STABILITY | - | 10.31 % |
| PERCENTAGE OF E | STABILITY | - | 3.10 % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 30 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - A

WIND DIRECTION

| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|------------|----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| WIND SPEED | | | | | | | | | | | | | | | | | | |
| GF | 24 | : | | | | | | | | | | | | | | | | : |
| 18 - | 24 | : | | | | | | | | | | | | | | | | : |
| 12 - | 18 | : | | | | | | | | | | | | | | | | : |
| 7 - | 12 | : | | | | | | | | | | | | | | | | : |
| 3 - | 7 | : | | | | | | | | | | | | | | | | : |
| LT | 3 | : | | | | | | | | | | | | | | | | : |
| TOTAL | | : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | : |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 00 0.00 %

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 30 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - D

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|-----|---|-----|----|-----|---|-----|-----|---|-----|----|-----|---|-------|
| | N | NNE | ENE | E | ESE | SE | SSE | S | SSW | WSW | W | WNW | NW | NNW | | |
| GT 24 : | | | | | | | | | | | | | | | : | |
| 14 - 24 : | | | | | | | | | | | | | | | : | |
| 12 - 14 : | | | | | | | | | | | | | | | : | |
| 7 - 12 : | | | | | | | | | | | | | | | : | |
| 3 - 7 : | | | | | | | | | | | | | | | : | |
| LT 3 : | | | | | | | | | | | | | | | : | |
| TOTAL : | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | : | |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 0 (0.00 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 38 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - C

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|---|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| GT 24 | : | | | | | | | | | | | | | | | | : |
| 18 - 24 | : | | | | | | | | | | | | | | | | : |
| 12 - 14 | : | | | | | | | | | | | | | | | | : |
| 7 - 12 | : | | | | | | | | | | | | | | | | : |
| 3 - 7 | : | | | | | | | | | | | | | | | | : |
| LT 3 | : | | | | | | | | | | | | | | | | : |
| TOTAL | : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | : |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | | | | | | |
| 0(0.00 %) | | | | | | | | | | | | | | | | | |

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 30 FEET PERIOD (11/ 1/74 TO 11/30/74)

WIND DIRECTION

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2
3

21-22

7-12

23

TOTAL

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE -

0.99%

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 30 FEET PERIOD (11/ 1/74 TO 11/30/74)

STABILITY CLASS - E

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | |
|---|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW |
| GT 24 : | | | | | | | | | | | | | | | | |
| 12 - 24 : | | | | | | | | | | | | | | | | |
| 12 - 12 : | | | | | | | | | | | | | | | | |
| 7 - 12 : | | | | | | | | | | | | | | | | |
| 3 - 7 : | | | | | | | | | | | | | | | | |
| LT 3 : | | | | | | | | | | | | | | | | |
| TOTAL : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | | | | | |
| 0(2.00 X) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 30 FEET PERIOD (1/74 TO 11/30/74)

STABILITY CLASS - TOTAL

| WIND SPEED
KPH | WIND DIRECTION | | | | | | | | | | | | | | | | | TOTAL |
|---|----------------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | |
| GT 24 | : | | | | | | | | | | | | | | | | : | |
| 15 - 24 | : | | | | | | | | | | | | | | | | : | |
| 12 - 15 | : | | | | | | | | | | | | | | | | : | |
| 7 - 12 | : | | | | | | | | | | | | | | | | : | |
| 3 - 7 | : | | | | | | | | | | | | | | | | : | |
| LT 3 | : | | | | | | | | | | | | | | | | : | |
| TOTAL | : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | : | |
| | | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 0 (0.00 %) | | | | | | | | | | | | | | | | | | |

| | | |
|-----------------|-------------|--------|
| PERCENTAGE OF A | STABILITY - | 0.00 % |
| PERCENTAGE OF B | STABILITY - | 0.00 % |
| PERCENTAGE OF C | STABILITY - | 0.00 % |
| PERCENTAGE OF D | STABILITY - | 0.00 % |
| PERCENTAGE OF E | STABILITY - | 0.00 % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 100 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - A

| WIND SPEED
KPH | | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL | | |
|---|----|----------------|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-------|------|---------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | | |
| GT | 24 | : | | | | | | 7 | 3 | 3 | | | | | | | | : | 13 | |
| 18 - | 24 | : | | | | | 2 | 9 | 14 | 13 | | | | | 3 | 1 | 2 | : | 44 | |
| 12 - | 18 | : | | | | | | 55 | 69 | 55 | 1 | | 1 | 3 | 2 | 3 | 0 | : | 222 | |
| 7 - | 12 | : | 1 | 3 | 5 | 13 | 79 | 61 | 60 | 102 | 68 | 41 | 14 | 7 | 10 | 13 | 8 | : | 525 | |
| 3 - | 7 | : | 31 | 36 | 48 | 58 | 109 | 126 | 130 | 117 | 73 | 35 | 31 | 50 | 65 | 67 | 48 | : | 1093 | |
| LT | 3 | : | 32 | 29 | 25 | 18 | 33 | 41 | 34 | 30 | 22 | 13 | 24 | 28 | 18 | 22 | 24 | : | 415 | |
| TOTAL | | : | 64 | 68 | 73 | 121 | 233 | 260 | 295 | 335 | 234 | 90 | 69 | 86 | 96 | 107 | 84 | : | 2292 | |
| | | | | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | | | | | | | | 121(| 4.41 %) |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 100 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - A

| WIND SPEED | | WIND DIRECTION | | | | | | | | | | | | NW | NNW | TOTAL |
|------------|----|----------------|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|--------------|
| MPH | GT | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | |
| 18 - | 24 | : | | | | 1 | 1 | 2 | 50 | 33 | 14 | 1 | 1 | | 5 | 1 : 109 |
| 12 - | 18 | : | | | 1 | 3 | 32 | 52 | 161 | 152 | 35 | 9 | 2 | 4 | 12 | 1 : 476 |
| 7 - | 12 | : | | 1 | 12 | 64 | 97 | 99 | 138 | 107 | 39 | 29 | 19 | 24 | 17 | 6 : 657 |
| 3 - | 7 | : | 15 | 22 | 15 | 45 | 56 | 51 | 65 | 51 | 68 | 49 | 45 | 41 | 22 | 20 : 624 |
| LT | 3 | : | 5 | 11 | 2 | 10 | 13 | 12 | 9 | 10 | 10 | 12 | 6 | 5 | 4 | 5 : 128 |
| TOTAL | | : | 20 | 34 | 16 | 57 | 119 | 199 | 219 | 445 | 383 | 170 | 101 | 73 | 60 | 39 33 : 2044 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 34(1.65 X)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 127 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - C

| WIND SPEED
MPH | | WIND DIRECTION | | | | | | | | | | | | NNW | NW | TOTAL |
|-------------------|---|----------------|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----------|
| | | N | NNE | NE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | | |
| GT 24 | : | | | | | | 2 | 31 | 12 | | 3 | | | | | |
| 10 - 24 | : | | | | | 1 | 4 | 45 | 15 | 17 | 3 | 1 | | 1 | 1 | 2 : 90 |
| 12 - 12 | : | | | | 3 | 22 | 31 | 69 | 24 | 20 | 18 | 7 | 34 | 20 | 4 | 1 : 319 |
| 7 - 12 | : | | | 2 | 22 | 100 | 120 | 69 | 69 | 45 | 55 | 128 | 151 | 25 | 15 | 8 : 872 |
| 3 - 7 | : | | 11 | 31 | 45 | 38 | 84 | 85 | 48 | 51 | 47 | 86 | 46 | 42 | 23 | 26 : 767 |
| LT 3 | : | | 5 | 8 | 7 | 10 | 12 | 8 | 13 | 5 | 9 | 12 | 12 | 4 | 6 | 8 : 130 |
| TOTAL | : | 23 | 39 | 54 | 70 | 199 | 250 | 141 | 267 | 237 | 155 | 138 | 230 | 92 | 49 | 45 : 2226 |

..... TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 28(1.26 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 100 FEET PERIOD(11/ 1/74 TO 11/30//74)

STABILITY CLASS - 0

| WIND SPEED
MPH | | WIND DIRECTION | | | | | | | | | | | NNW | NW | W | WNW | TOTAL |
|---|---|----------------|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NNW | |
| GT 24 | : | | | | | | | 1 | 18 | 3 | | | | 1 | | | 23 |
| 18 - 24 | : | | | | | | | 0 | 17 | 4 | 1 | | | 13 | 25 | 1 | 61 |
| 12 - 18 | : | 2 | | | 1 | 5 | 9 | 18 | 18 | 18 | 0 | 2 | 5 | 42 | 47 | 46 | 214 |
| 7 - 12 | : | 8 | 3 | 3 | 21 | 52 | 68 | 18 | 20 | 26 | 1 | 2 | 42 | 102 | 81 | 23 | 508 |
| 3 - 7 | : | 22 | 25 | 35 | 34 | 54 | 53 | 15 | 20 | 8 | 5 | 5 | 29 | 20 | 41 | 52 | 448 |
| LT 3 | : | 13 | 15 | 11 | 8 | 7 | 8 | 8 | 1 | 2 | 0 | 2 | 6 | 4 | 4 | 8 | 109 |
| TOTAL | : | 45 | 44 | 50 | 64 | 118 | 138 | 60 | 94 | 61 | 7 | 11 | 82 | 168 | 186 | 170 | 1363 |
| | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CAL'S DISTRIBUTED ABOVE - | | | | | | | | | | | | | | | | | |
| 110 0.81 X) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 100 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - E

| WIND SPEED
KPH | WIND DIRECTION | | | | | | | | | | | | | | | | |
|-------------------|----------------|-----|----|-----|----|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
| GT 24 : | | | | | | | | 1 | | | | | | | 2 | | 3 |
| 18 - 24 : | | | | | | | | 0 | | | | | | | 2 | 1 | 3 |
| 12 - 18 : | | | | | | 4 | 4 | 1 | 1 | | | | | | 0 | 0 | 10 |
| 7 - 12 : | 5 | | | 4 | 18 | 26 | 8 | 2 | 4 | | | | 4 | 4 | 17 | 9 | 101 |
| 3 - 7 : | 10 | 2 | 10 | 15 | 18 | 19 | 13 | 5 | 3 | 5 | | 4 | 5 | 11 | 20 | 42 | 182 |
| LT 3 : | 10 | 6 | 2 | 3 | 0 | 1 | 1 | 0 | 1 | 0 | | 2 | 0 | 0 | 2 | 10 | 38 |
| TOTAL : | 25 | 8 | 12 | 22 | 36 | 50 | 26 | 9 | 9 | 5 | 0 | 6 | 9 | 15 | 43 | 62 | 337 |

..... TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 6 (1.78 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC PICHESLEO COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 100 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - TOTAL

| WIND SPEED
KPH | N | NNE | NE | ENE | E | ESE | SE | SSE | WIND DIRECTION | | | | WSW | W | WNW | NNW | TOTAL |
|---|-----|-----|-----|-----|-----|-----|-----|------|----------------|-----|-----|-----|-----|-----|-----|------------|----------|
| | | | | | | | | | N | SSW | SW | WSW | | | | | |
| GT 24 : | | | | | | | 13 | 75 | 38 | 4 | 4 | | | | | 3 | : 137 |
| 18 - 24 : | | | | | 1 | 4 | 15 | 126 | 65 | 32 | 4 | 2 | | | 22 | 29 | 7 : 327 |
| 12 - 18 : | 2 | | | 4 | 23 | 92 | 160 | 318 | 320 | 56 | 29 | 15 | 83 | | 81 | 15 | 3 : 1241 |
| 7 - 12 : | 21 | 7 | 11 | 77 | 313 | 400 | 233 | 331 | 274 | 126 | 100 | 196 | 291 | 140 | 14 | 46 : 2643 | |
| 3 - 7 : | 39 | 116 | 154 | 211 | 310 | 339 | 252 | 255 | 186 | 174 | 132 | 214 | 177 | 183 | 116 | 156 : 3114 | |
| LT 3 : | 68 | 72 | 46 | 50 | 60 | 72 | 69 | 45 | 42 | 36 | 52 | 53 | 34 | 36 | 51 | 63 : 849 | |
| TOTAL : | 180 | 105 | 211 | 335 | 707 | 927 | 742 | 1150 | 925 | 428 | 321 | 480 | 585 | 462 | 381 | 275 : 8291 | |
| | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 180(2.17 %) | | | | | | | | | | | | | | | | | |

PERCENTAGE OF A STABILITY - 27.64 %
 PERCENTAGE OF B STABILITY - 24.65 %
 PERCENTAGE OF C STABILITY - 26.85 %
 PERCENTAGE OF D STABILITY - 16.44 %
 PERCENTAGE OF E STABILITY - 4.06 %

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 240 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - A

| WIND SPEED
KPH | WIND DIRECTION | | | | | | | | | | | | | | | | |
|-------------------|----------------|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
| GT 24 : | | | | | | | | | 61 | 3 | | | | | | | 64 |
| 15 - 24 : | | | | | | | 4 | 1 | 48 | 15 | | | | 2 | | 1 | 72 |
| 12 - 15 : | | 1 | | | 3 | 7 | 16 | 45 | 106 | 40 | 3 | | 3 | 6 | 3 | 1 | 234 |
| 7 - 12 : | 1 | 2 | 1 | 2 | 12 | 47 | 60 | 72 | 164 | 61 | 21 | 11 | 12 | 10 | 11 | 5 | 492 |
| 3 - 7 : | 24 | 30 | 36 | 22 | 30 | 66 | 75 | 131 | 131 | 58 | 37 | 48 | 48 | 60 | 46 | 50 | 192 |
| LT 3 : | 42 | 40 | 52 | 48 | 39 | 49 | 43 | 60 | 61 | 34 | 32 | 40 | 39 | 44 | 43 | 56 | 712 |
| TOTAL : | 67 | 73 | 89 | 72 | 84 | 169 | 198 | 309 | 571 | 212 | 93 | 99 | 102 | 122 | 103 | 113 | 2476 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 189(7.63 %)

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL - 248 FEET PERIOD (11/ 1/74 TO 11/30/74)

STABILITY CLASSES - A

| WIND SPEED
KPH | | WIND DIRECTION | | | | | | | | | | | | | | NNW | TOTAL |
|-------------------|----|----------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-------|
| | | N | NNE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | | |
| GT | 24 | : | | | | | 4 | 37 | 19 | 4 | 1 | | | | | | 65 |
| 18 - | 24 | : | | | | 2 | 4 | 57 | 43 | 16 | 1 | | | 2 | | 1 | 126 |
| 12 - | 18 | : | | | 1 | 4 | 17 | 46 | 171 | 90 | 20 | 3 | | 7 | 1 | 1 | 361 |
| 7 - | 12 | : | | | 2 | 8 | 25 | 74 | 133 | 74 | 33 | 16 | 11 | 11 | 8 | 5 | 483 |
| 3 - | 7 | : | 10 | 7 | 9 | 11 | 15 | 27 | 41 | 72 | 62 | 23 | 36 | 37 | 27 | 32 | 479 |
| LT | 3 | : | 5 | 13 | 12 | 16 | 19 | 18 | 21 | 24 | 15 | 16 | 11 | 17 | 11 | 25 | 251 |
| TOTAL | | : | 16 | 20 | 21 | 27 | 43 | 74 | 155 | 233 | 475 | 265 | 120 | 75 | 67 | 64 | 1765 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE -

70(3.97 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 200 FEET PERIOD (11/ 1/74 TO 11/30/74)

STABILITY CLASS - C

| WIND SPEED
MPH | | WIND DIRECTION | | | | | | | | | | | NW | NNW | TOTAL |
|-------------------|---|----------------|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | |
| GT 24 | : | | | | | | | | 11 | 12 | 16 | 3 | 2 | | 44 |
| 18 - 24 | : | | | | | | | 3 | 14 | 45 | 19 | 17 | 10 | 2 | 4 : 117 |
| 12 - 18 | : | | | | 1 | | 8 | 27 | 75 | 137 | 56 | 23 | 14 | 15 | 2 : 382 |
| 7 - 12 | : | 3 | | 2 | 3 | 11 | 68 | 116 | 64 | 80 | 45 | 46 | 45 | 146 | 4 : 719 |
| 3 - 7 | : | 13 | 8 | 16 | 19 | 37 | 74 | 64 | 58 | 38 | 28 | 29 | 38 | 111 | 34 : 696 |
| LT 3 | : | 8 | 11 | 17 | 13 | 9 | 16 | 18 | 17 | 15 | 9 | 9 | 15 | 14 | 24 : 223 |
| TOTAL | : | 24 | 19 | 35 | 35 | 58 | 165 | 230 | 239 | 327 | 173 | 127 | 124 | 288 | 68 : 2181 |

.....
 TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE -

53(2.43 %)

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 200 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - 0

| WIND SPEED
KPH | | WIND DIRECTION | | | | | | | | | | | | | | | | |
|-------------------|----|----------------|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-------|
| | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
| GT | 24 | : | | | | | | 5 | | 8 | 1 | | | | | 4 | | 18 |
| 18 - | 24 | : | | | | 1 | 1 | 12 | 12 | 1 | 1 | 1 | 5 | | 2 | 43 | 3 | 81 |
| 12 - | 18 | : | 2 | | | 9 | 16 | 36 | 21 | 14 | 1 | 1 | 1 | 16 | 34 | 56 | 13 | 213 |
| 7 - | 12 | : | 11 | 1 | 3 | | 40 | 71 | 33 | 19 | 4 | 9 | 10 | 65 | 95 | 51 | 20 | 445 |
| 3 - | 7 | : | 16 | 16 | 15 | 30 | 29 | 22 | 20 | 14 | 10 | 10 | 13 | 45 | 63 | 60 | 44 | 469 |
| LT | 3 | : | 10 | 19 | 21 | 7 | 13 | 9 | 3 | 10 | 3 | 1 | 0 | 5 | 14 | 21 | 23 | 172 |
| TOTAL | : | 39 | 36 | 39 | 42 | 50 | 109 | 119 | 103 | 82 | 33 | 22 | 29 | 131 | 228 | 235 | 103 | 1398 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE -

42(3.00 %)

ATLANTIC RICHFIELD COMPANY METEOROLOGICAL TOWER SITE
LEVEL = 204 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - E

| WIND SPEED | | WIND DIRECTION | | | | | | | | | | | | | NW | NNW | TOTAL | |
|--|----|----------------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|---|----|------|-------|-----|
| MPH | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | | | | NNW |
| GT | 24 | : | | | | | | | | 1 | | | | | 2 | 1 : | 4 | |
| 18 - | 24 | : | | | | | | 2 | 3 | 1 | 1 | | | | 2 | 1 : | 10 | |
| 12 - | 18 | : | | | | | 1 | 3 | 14 | 5 | 0 | 1 | | 1 | 0 | 3 : | 28 | |
| 7 - | 12 | : | 5 | 1 | 3 | 2 | 11 | 25 | 1 | 4 | 0 | 1 | | 0 | 31 | 16 : | 107 | |
| 3 - | 7 | : | 17 | 7 | 4 | 5 | 10 | 3 | 3 | 5 | 2 | 2 | 1 | 1 | 42 | 26 : | 161 | |
| LT | 3 | : | 13 | 7 | 0 | 4 | 3 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 19 | 11 : | 81 | |
| TOTAL | | : | 35 | 14 | 11 | 13 | 16 | 34 | 36 | 22 | 16 | 5 | 4 | 2 | 27 | 96 | 58 : | 391 |
| | | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 280 7.16 % | | | | | | | | | | | | | | | | | | |

STABILITY WIND ROSE DIAGRAM

ATLANTIC HIGHFIELD COMPANY METEOROLOGICAL TOWER SITE
 LEVEL = 200 FEET PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - TOTAL

| WIND SPEED
MPH | N | NNE | NE | ENE | E | ESE | SE | SSE | WIND DIRECTION | | | | W | WNW | NW | NNW | TOTAL |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-------|
| | | | | | | | | | S | SSW | SW | WSW | | | | | |
| GT 24 : | | | | | | | | 20 | 119 | 39 | 7 | 3 | | | 6 | 1 | 195 |
| 18 - 24 : | | | | | | 1 | 12 | 34 | 163 | 80 | 34 | 16 | 2 | 7 | 47 | 10 | 406 |
| 12 - 18 : | | | | | 5 | 20 | 79 | 210 | 440 | 200 | 48 | 18 | 35 | 59 | 72 | 20 | 1218 |
| 7 - 12 : | | 24 | 3 | 9 | 13 | 41 | 191 | 351 | 420 | 184 | 110 | 82 | 234 | 180 | 125 | 50 | 2245 |
| 3 - 7 : | | 80 | 69 | 80 | 83 | 121 | 232 | 284 | 246 | 121 | 114 | 137 | 244 | 275 | 216 | 186 | 2697 |
| LT 3 : | | 30 | 91 | 108 | 92 | 87 | 122 | 94 | 104 | 99 | 66 | 54 | 74 | 94 | 115 | 140 | 1477 |
| TOTAL : | 182 | 163 | 197 | 191 | 254 | 555 | 741 | 925 | 1467 | 690 | 367 | 330 | 594 | 615 | 581 | 407 | 8239 |

TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 352(4.64 %)

| | | |
|-----------------|-------------|---------|
| PERCENTAGE OF A | STABILITY - | 30.05 % |
| PERCENTAGE OF B | STABILITY - | 21.42 % |
| PERCENTAGE OF C | STABILITY - | 26.47 % |
| PERCENTAGE OF D | STABILITY - | 16.97 % |
| PERCENTAGE OF E | STABILITY - | 4.75 % |

STABILITY WIND ROSE DIAGRAM

ATLANTIC RICHFIELD COMPANY

TRAILER NO. - 21 PERIOD(11/ 1/74 TO 11/30/74)

STABILITY CLASS - D

| WIND SPEED
MPH | WIND DIRECTION | | | | | | | | | | | | | | | | TOTAL |
|-------------------|----------------|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|-----|------|-------|
| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NNW | | |
| GT 24 : | | | | | | | | | | | | | | | | : | |
| 15 - 24 : | | | | | | | | | | | | | | 54 | 1 : | 55 | |
| 12 - 15 : | | | | | | | 1 | | | | | | | 3 | 61 | 2 : | 67 |
| 7 - 12 : | | | | | 4 | 94 | 20 | 7 | 1 | | | | | 20 | 50 | 1 : | 197 |
| 3 - 7 : | | 1 | | 1 | 25 | 108 | 62 | 15 | 3 | 1 | | | 7 | 26 | 71 | 10 : | 330 |
| LT 3 : | | 20 | 4 | 0 | 27 | 77 | 66 | 15 | 10 | 0 | | 1 | 4 | 26 | 68 | 39 : | 357 |
| TOTAL : | 21 | 4 | 1 | 56 | 279 | 143 | 38 | 14 | 0 | 1 | 0 | 1 | 11 | 75 | 304 | 53 : | 1006 |

.....
TOTAL NUMBER OF CALMS DISTRIBUTED ABOVE - 218(21.67 %)

